

COMMONWEALTH MYCOLOGICAL INSTITUTE

Collection of Fungus Cultures

While the function of this Collection is partly ancillary to the taxonomic work of the Institute, it is also a public collection, distributing living cultures of fungi of interest in plant pathology, industry, taxonomic research, and education.

The Collection includes many strains used for the synthesis of organic substances, and others which are used in physiological assay, soil analysis, etc. Special sets of cultures are supplied for the purpose of testing mould-proofing treatments of commercial products according to official specifications, including those of the United States of America. Manufacturers are invited to consult the Curator of the Collection regarding the handling of cultures in these tests, especially if their staff is not familiar with mycological techniques.

A large number of micro-fungi maintained in culture at the C. M. I. are specially suitable for teaching purposes: the Curator will be glad to discuss the needs of school and university teachers.

Other units of the United Kingdom organization of collections of micro-organisms are:

Fungi and yeasts pathogenic to man and animals.

The Director,

Mycological Reference Laboratory,
London School of Hygiene & Tropical Medicine,
Keppel Street,
Gower Street,
London, W. C. 1.

Wood-rotting fungi.

The Director,

Forest Products Research Laboratory,
Princes Risborough,
Aylesbury, Bucks.

Yeasts (non-pathogenic).

The Curator,

National Collection of Yeast Cultures,
The Brewing Industry Research Foundation,
Nutfield,
Surrey.

Industrial bacteria, bacteria for microbiological assay, etc.

The Curator,

National Collection of Industrial Bacteria,
Torry Research Institute,
Aberdeen, Scotland.

Bacteria pathogenic to plants.

The Curator, National Collection of Plant Pathogenic Bacteria,
The Plant Pathology Laboratory,
Ministry of Agriculture, Fisheries & Food,
Hatching Green, Harpenden, Herts.

Bacteria pathogenic to man and animals.

The Curator,
National Collection of Type Cultures,
Central Public Health Laboratory,
Colindale Avenue,
London, N.W.9.

Bacteria of milk and dairy products.

The Curator, National Collection of Dairy Organisms,
National Institute for Research in Dairying,
Shinfield, nr. Reading,
Berks.

The attention of residents on the continent of Europe is directed to the fine collection of fungi and yeasts maintained by the Centraalbureau voor Schimmelcultures, Baarn, Holland. In the United States the American Type Culture Collection, 2112 M. Street, N.W., Washington 7, D.C., provides a similar service.

Cultures are supplied to industry and to trade research associations in the United Kingdom and British Commonwealth at 15s. per culture, post free by surface mail. Reduced rates apply to research workers in Universities and to schools and colleges. For all other countries the charge is higher with corresponding reductions for research and educational establishments. It is most advisable to have cultures sent by air mail to countries outside Europe, and this is charged extra at second class rate.

Orders from Canada and the United States of America should be accompanied by permit tags, without which, entry to these countries is refused. Tags may be obtained from, in Canada, the Chief of the Plant Protection Division, Science Service Building, Carling Avenue, Ottawa; in the U.S.A., from the Plant Quarantine Branch, Agricultural Research Service, U.S. Dept. of Agriculture, Washington 25, D.C. In all cases, the names of the organisms and the purpose for which they are required should be stated in applications for permits.

Donors of acceptable cultures are given free exchanges (an equal number of cultures), and are entitled to have their gift isolations free when they may again require them. The maintenance of any given strain cannot, however, be guaranteed, since some organisms are difficult to keep indefinitely in artificial culture.

It is hoped that mycologists in all parts of the world will deposit cultures in the C.M.I. collection. Isolations from the type material of new species and varieties should be sent to this and to other principal collections (e.g. the C.B.S. and A.T.C.C.) for safe keeping. The duplication of cultures in more than one collection is desirable as insurance against accidental loss. Dried material for the C.M.I. Herbarium, and reprints of publications for the library, sent at the same time as the relevant cultures, will be very specially welcomed. In all cases donors are asked to supply the name of the host or substratum, locality, date, and identity or collection numbers.

In this catalogue the names under which fungi are listed are those under which they are disposed in the C.M.I. Herbarium; in some cases the most important synonyms are given. An asterisk * marks a name published after 1st January, 1935, without a latin diagnosis and hence invalid. The number preceding each entry is the accession number under which the isolation is filed at the C.M.I. Isolations from type collections are then marked "(T)"; "(A)" signifies that the isolation has been identified by the author of the specific name, although it is not derived from the original

type material. The host or substratum from which the isolation was derived is then given, followed by the country of origin and date, the name of the mycologist who isolated the fungus, and the hands through which the culture then passed, with the identification numbers attached by these workers or institutions. The annotations include notes on biochemical significance, etc. The letter "m" indicates that the isolation "mates" with the strain the number of which is given. The names of more important culture collections are abbreviated as follows:

- ATCC: American Type Culture Collection, Washington.
- BRL: Akers Research Laboratories (formerly known as Butterwick Research Laboratories) of Imperial Chemical Industries, Ltd.
- CBS: Centraalbureau voor Schimmelcultures, Baarn.
- CMI: Commonwealth Mycological Institute (formerly Imperial Bureau of Mycology and Imperial Mycological Institute; to simplify entries "CMI" is used to cover the whole period. The full citation of all CMI collections includes the registered caption "Herb. I. M. I." prefixed to the accession number).
- CS: Centraalstelle.
- EMRS: East Malling Research Station, Kent.
- FPRL: Forest Products Research Laboratory, Princes Risborough.
- ICI: Imperial Chemical Industries.
- LSH: London School of Hygiene and Tropical Medicine.
- MRA: Mushroom Research Association (now closed).
- NCTC: National Collection of Type Cultures (which formerly maintained a collection of fungi at the Lister Institute).
- NRRL: Northern Utilization Research Branch, U.S.D.A., Peoria, Ill., U.S.A.
- RCS: Royal College of Science, S. Kensington, London, S.W. 7.
- QM: Quartermaster Research & Development Centre, U.S. Army, Natick, Mass.

When ordering cultures, clients are advised to quote the accession numbers only when they are sure that a particular strain is most suitable for their purpose. It is usually more satisfactory to state the purpose for which the cultures are required, and to leave the choice of strain to the mycologist in charge of the Collection. For educational purposes it is often sufficient to order by the generic name only, or to allow us to select the best species or strain available.

Teachers should send orders well in advance of the dates when they wish to set up their own sub-cultures for class work. Occasionally it is possible to supply cultures at short notice, but three weeks is normally the minimum time required to check and, if necessary, repeat our plantings. From some colleges, orders for the autumn term are issued at the end of the summer term, with indications of the dates when the cultures are required; this is an excellent arrangement.

A list of this kind is inevitably out-of-date by the time it is printed, for new items are added to the Collection almost daily, while others are lost or discarded. The absence from the list of a particular species does not, therefore, necessarily mean that it is unobtainable, and enquiry should be made. Supplementary lists of new accessions and deletions are issued at intervals of six months, and complete new editions every three years.

LIST OF CULTURES

Absidia blakesleeana Lendner

52, 119 Soil, Sudan, M.A. Nour.

Absidia butleri Lendner

— see *Gongronella butleri* (Lendner) Peyronel & dal Vesco.

Absidia coerulea Bain.

15, 400 Iowa, U.S.A. G.W. Martin—NCTC(1790), 1924.

Absidia corymbifer (Cohn) Sacc. & Trott.

(Syn. *A. lichtheimi* (Lucet & Cost.) Lendner)

15, 397 Man. LSH(C.180)—NCTC(6152).

Absidia cristata Dade

15, 401 (T) Cassava stems (following anthracnose), Aburi, Ghana(554), 1932. H.A. Dade—NCTC(4927).

60, 061 (A) Oil palm seedlings, Nigeria, 1954. R.A. Bull(57/54).

Absidia cuneospora Orr & Plunkett

78, 402 (T) Clay soil, Los Banos, Cal., U.S.A. G.F. Orr(0-353)=NRRL(2632)
= QM(7854)= ATCC(13653).

78, 403 (Mating T) Clay soil, Los Banos, Cal., U.S.A. G.F. Orr(0-33)=
NRRL(2655)= QM(7855)= ATCC(13654)

Absidia cylindrospora Hagem

15, 402 Soil, Scotland. M.E. Campbell—Malcolm Wilson—NCTC(5695), 1939.
(+) m. 15, 403.

15, 403 Soil Scotland. M.E. Campbell—Malcolm Wilson—NCTC(5695a), 1939.
(-) m. 15, 402.

60, 231 Soil, Dehra Dun, India, 1955. B.K. Bakshi.

Absidia glauca Hagem

(Syn. *A. regnieri* (Lucet & Cost.) Lendner)

15, 405 W.H. Wilkins—NCTC(3098), 1929. (+) m. 15, 406.

15, 406 W.H. Wilkins—NCTC(3099), 1929. (-) m. 15, 405.

31, 248 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup(B. 52).
(+) m. 31, 249.

31, 249 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup(B. 53).
(-) m. 31, 248.

55, 191 Soil, Nairobi, Kenya, 1954. I.A.S. Gibson.

Absidia italiana (Cost. & Perin) Dodge

15, 396 Man, Egypt. N. Gohar—LSH—NCTC(6163), 1941.

Absidia orchidis (Vuill.) Hagem

38, 500 Soil, Lakenheath Warren, Suffolk, 1946. J.H. Warcup(B. 35).
m. 38, 501.

38, 501 Soil, Lakenheath Warren, Suffolk, 1946. J.H. Warcup(B. 36).
m. 38, 500.

Absidia ramosa (Lindt) Lendner

15, 398 Man, Egypt. N. Gohar—LSH—NCTC(6162), 1941.

61, 222 Stencil silk, London, 1955. J. Knott.

Absidia repens van Tiegh.

20, 746 New Zealand, 1947. Vernon(38.1) - Newhook.

Absidia spinosa Lendner

68, 077 Soil, Cambridge, 1947. J.H. Warcup(B. M. 60)—C. G. Dobbs.

Acroniella atra (Corda) Sacc.

61, 335(c) *Urtica* sp., Goblin Coombe, Cleeve, Somerset, 1955. A.H.S. Brown.

76, 019 Seeds of *Beta vulgaris*, Dunholme, Linco., 1958. C.E. Cornford.

80, 523 Seed oats, Scotland, 1960. C.E. Elliot.

Acrospeira levis Wiltshire

15, 326 (A) Contaminant of culture, CMI, Kew, 1947. H.A. Dade.

24, 280 (A) Contaminant of culture, Cardiff, 1944. S.J. Hughes—NCTC(6818).

43, 603 Seed oats, Belfast, N. Ireland, 1947. J.P. Malone(5L).

Acrospeira macrosporoidea (Berk.) Wiltshire

17, 843 Decaying broom, Lambourne Hill, Perranzabuloe, Cornwall, 1947. F. Ristone.

Acrostalagmus cinnabarinus Corda

— see *Nectria inventa*

Acrothecium arenarium Moreau

53, 747 (T) Soil of sand dunes, Pointe du Siège, France. F. Moreau—G. Doguet.

Acrothecium lunatum Wakker

— see *Curvularia lunata*

Actinomucor repens Schost.

40, 054 Contaminant of culture, Kenya, 1949. R.M. Nattrass(1328).

56, 159 Begonia, associated with corm rot, Kenya, 1954. R.M. Nattrass(1924).

59, 590 Cotton seedlings, Egypt, 1953. M.A. Ragab.

72, 856 Soil, Princes Risborough, Bucks, 1958. J.G. Savory.

Actinomyces spp.

45, 559 Buried wool, U.S.A. M.H. Downing(QM.B.1477)—CMI, 1951. Attacks non-autoclaved wool.

45, 560 Tarpaulin, New Guinea. M.H. Downing(QM.B.814)—CMI, 1951. Actively cellulolytic.

Allescheria boydii Shear

15, 407 (T) Man, U.S.A. Shear(120)—CMI—NCTC(1313), 1922.

35, 651 Man, Washington, D.C., U.S.A. C.L. Shear—Puntoni—NCTC(3249), 1930—LSH(1002).

74, 794 Man, Galveston, Texas, 1925. C.L. Shear—ATCC—NCTC(3741)—LSH(1001).

75, 335 Man, U.S.A. Conant—NCTC(6775)—LSH(1016), 1947.

Alternaria abietis Tengwall

36, 124 Pine stump, England, 1949. J. Rishbeth(F.9).

Alternaria brassicae (Berk.) Sacc.

51, 115 Candytuft stems, Tanganyika, 1952. G.B. Wallace(95/52).

Alternaria citri Pierce

40, 049 Orange fruit, Wokingham, Berks., 1950. P.J. Cousins.

77, 072 Orange, Cape Province, S. Africa, 1959. R.A. Christ.

Alternaria consortialis (Thüm.) Groves & Hughes

(Syn. *Stemphylium consortiale* Thüm.)

33, 685 Lima bean seeds, Canada, 1948. J. Walton Groves(I-58)—S.J. Hughes, 1949.

Alternaria dauci (Kühn) Groves & Skolko

58, 484 Carrot leaves, Ghana, 1954. F.C. Peacock(GCMH.4024).

63, 224 *Daucus carota* seed, Scotland, M. Noble—CMI, 1956.

- Alternaria longipes* (Ellis & Everh.) Mason
55, 929 Tobacco, Northern Rhodesia, 1954. E. A. Riley(208).
- Alternaria nelumbii* Enlows & Rand
71, 908 *Nelumbium* sp., Karachi, Pakistan, 1957. A. B. Mallik.
- Alternaria passiflorae* Simmonds
53, 248 Passion fruit, Kenya, 1953. R. M. Nattrass(1884).
- Alternaria solani* Sorauer
46, 816 Tomato fruit, Cambridge, 1946. M. Keay(CPBG. 14)—R. V. Tipler—
P. W. Brian(408). Production of alternaric acid.
49, 671 Tomato fruit, Cambridge, 1946. M. Keay(CPBG. 7)—K. M. Charlton—
M. Bray, Hawthorndale Labs., I. C. I. (K. 30).
- Alternaria stemphylioides* Bliss
56, 424 (A) Bliss—CBS—CMI, 1954.
- Alternaria* sp. (tenuis group)
16, 254(b) Contaminant of culture, Kew, Surrey, 1947. H. A. Dade.
49, 788 Soil, Dacca, Pakistan, 1952. Q. A. Ahmed(55).
63, 408 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith(C. 1. f)—J. C.
Cain.
71, 749 Defence Standards Lab., Australia. (DSL. 225)—CMI, 1957. Strain
used for tropic testing.
72, 415 *Allium cepa* roots, Punjab, India, 1957. Ved Raj Pandotra (55H).
72, 726 Soil, Baghdad, Iraq, 1958. M. K. Tolba.
79, 630 *Lycopersicon esculentum*, Allahabad, India, 1960. C. Chatuwedi(1).
- Alternaria tenuissima* (Nees ex Fr.) Wiltshire
56, 271 *Artemisia brevifolia*, India, 1954. K. Bagchee.
77, 934(b) Groundnut, Vacoas, Mauritius, 1959. S. Felix(D/430).
- Alternaria* sp.
70, 104 Defence Standards Lab., Australia. (DSL. 79)—CMI, 1957. Strain
used for tropic testing.
- Amblyosporium botrytis* Fresen.
1, 691 *Lactarius* sp., Haselmere, Surrey, 1945. E. W. Mason.
- Anxiopsis stercoraria* (Hansen) Hansen
74, 750 Soil from strawberry bed, Bath, Somerset, 1958. P. Stockdale.
77, 672 Excreta of kestrel, Hathersage, Derbyshire, 1959. R. Watling.
80, 967 Mammal dung (indet.), Bury Hill, Sussex, 1960. J. Gunnell.
- Arachniotus indicus* Chattopadhyay & Das Gupta
57, 850 (T) Paddy field soil, Chinsurah, W. Bengal, India, 1954. S. B. Chattopadhyay.
- Armillaria mellea* (Vahl. ex Fries) Kummer
61, 754 FPRL(6D)—CMI, 1956.
61, 755 FPRL(6E)—CMI, 1956.
63, 584 Oak. Reitsma, 1932—CBS—I. A. S. Gibson(214D)—CMI, 1956.
63, 585 *Pinus patula*, Kaptagat Forest Reserve, Kenya. I. A. S. Gibson(385)—
CMI, 1956.
63, 586 *Rhododendron arboreum*, Dehra Dun. B. K. Bakshi—I. A. S. Gibson(383)
—CMI, 1956.
63, 587 *Pygeum africanum*, Uplands Forest Station, Kenya. I. A. S. Gibson(302)
—CMI, 1956.
63, 588 *Daphne mezereum*, Cambridge, 1946. F. T. Brooks—I. A. S. Gibson
(148)—CMI, 1956.

Arthrobotrys oligospora Fresen.

73, 616 Ostrich dung, San Francisco, U.S.A., 1958. S. Stribling.

Ascochyta pinodella L. K. Jones

54, 861 CBS(366)—CMI, 1953.

74, 278 Pea seeds, Sheffield, Yorks., 1955. J. Kennedy.

Ascochyta pisi Lib.

54, 862 CBS(Wehlburg)—CMI, 1953.

Ascochyta grovesii Wells

46, 868 (T) Timber, Canada. D. Wells(663).

68, 865 *Pinus strobus* boards, Canada—FPRL(46/1/51), 1956.

Ascoidea rubescens Brefeld & Lindau

51, 500 Fitzpatrick—CBS—CMI, 1953.

Ascosphaera apis (Maassen ex Claussen) Olive & Spiltoir var. *apis* Olive & Spiltoir
(Syn. *Pericystis apis* Maassen ex Claussen)

35, 650 Honey bee larva, England, 1949. P. S. Milne—H. A. Dade.

76, 402 Larva of honey bee, Harrogate, 1958. G. H. Hughes.

Ashbya gossypii (Ashby & Nowell) Guill.

— see *Nematospora gossypii*.

Aspergillus aeneus Sappa

69, 855 (A) Forest soil, Italian Somaliland. F. Sappa—G. Smith(BB. 355)—CMI, 1957.

Aspergillus alliaceus Thom & Church

16, 125 (A) Church—CBS—CMI, 1937. (This is probably Thom's 4660, NRRL(316) = Walker & Lindren's isolation from onion in U.S.A.)

51, 982 (T) *Macrobosia albidula*. Thom(USDA. 200. 4956)—NRRL(315)—ATCC(10060).

Aspergillus amstelodami Thom & Church

16, 110 Soil, Sudan, 1940. A. S. Boughey.

17, 455 Isolation used for testing mould-proofing. G. Smith—CMI, 1947.

57, 394 Skin of horse, Liverpool, 1953. P. K. C. Austwick(V. 625).

71, 295 Contaminant of culture, Queen's University, Belfast, 1952. W. M. Darling. (UV mutant with antibiotic properties).

79, 550 Bamboo, India, 1959. S. Stribling.

Aspergillus asperescens Stolk

46, 813 (T) Soil, Read's Cavern, S. Wales, 1947. E. G. Jeffereys—P. W. Brian(385). Production of humicolin.

Aspergillus atropurpureus Blochw.

— see *A. violaceo-fuscus*, IMI. 16, 135.

Aspergillus aureolus Fennell & Raper

61, 451 (T) Soil, Tafo, Ghana, 1950. C. F. Charter—NRRL(2244).

Aspergillus aureus Nakazawa

50, 567 B. A. Stone. Produces pectic enzymes.

Aspergillus avenaceus G. Smith

16, 140 (T) Seed peas, England, 1938. G. E. Turfitt—G. Smith(B. 155).

Aspergillus awamori Nakazawa

59, 605 Rhizosphere of *Tropaeolum* sp., Botanical Garden, Ain Shams University, Egypt. A. H. Montasiz—CMI, 1955.

- 59, 613 Rhizosphere of *Tropaeolum* sp., Botanical Garden, Ain Shams University, Egypt. A. H. Montasiz—CMI, 1955.
63, 764 I. A. S. Gibson(28)—CMI, 1956.

Aspergillus brevipes G. Smith

- 51, 494 (T) Soil, Kosciusko Mt., New South Wales, S. Marcus—G. Smith (BB263).

Aspergillus caespitosus Raper & Thom

- 16, 034 (T) Soil, Arkansas, U. S. A. F. R. Earle—Raper & Thom—G. Smith—CMI, 1948.

Aspergillus candidus Link ex Fr.

- 16, 046 Vegetable lard, Aburi, Ghana(601), 1933. H. A. Dade.
56, 189 Cotton material, London, 1954. J. Walker.
59, 446 Eye lesion of duckling, Cambridge, 1953. P. K. C. Austwick(V. 471/1).
73, 074 Cat's dung, Kwadasu, Ghana, 1958. R. I. Leather(CB. 2697).
78, 734 NRRL(2297)—ATCC(13686). Production of candidulin.

Aspergillus carbonarius (Bain.) Thom

- 16, 136 Blakeslee—Thom(4030.1)—NCTC(1325), 1922. (= Raistrick Ac. 11, ATCC 1025).

Aspergillus carneus Blochw.

- 16, 128 Soil, New Zealand. J. C. Neill(657), as *A. cervinus* Massee—NCTC(5609), 1938
31, 402 Sugarcane, Southern Rhodesia. G. R. Bates(7756E).
58, 128 Soil, Chik Balapur, India. E. Yuill(A. 108)—CMI, 1954.
73, 777 Man (assoc. with chronic bronchitis), Purpan, Haute-Garonne, France, 1955. R. Morquer.

Aspergillus chevalieri (Mang.) Thom & Church

- 16, 115 Fermented cacao, Ghana(565a), 1932. H. A. Dade.
16, 120 Fermented cacao, Aburi, Ghana(464), 1929. H. A. Dade.
52, 655 Cashew (*Anacardium occidentale*); Tanganyika, 1953. G. B. Wallace(110/53).
73, 070 Manufactured ? tobacco, England, 1958. M. L. Chalk.

Aspergillus cinnamomeus Schiemann

- 16, 148 (T) Mutant from *A. niger*, Germany, ca 1911. E. Schiemann—CBS—Raistrick(Ac. 42)—NCTC(3774).

Aspergillus citricus Mosseray

- 15, 954 (T) Wehmer—Neuberg ("*A. niger citricus*")—Thom(4668.4)—NCTC(1692)—CMI, 1944.

Aspergillus citrisporus Höhn.

- 25, 285 CBS—E. Yuill—CMI, 1948.
31, 251 Soil of Podocarpus forest, Awarua, Southland, New Zealand, 1945. J. H. Warcup(A. 29).
55, 296 Thaxter—Thom(4186.10), 1917—CBS—NRRL(2292). (Perithecial).

Aspergillus clavatus Desm.

- 16, 126 Contaminant of culture, Kew, 1944. E. W. Mason.
54, 399 Soil, Ibadan, Nigeria, 1953. W. L. Jackson(N. 23).
57, 388 Air sac of chicken, Devon, 1953. P. K. C. Austwick(V. 582/3).

"*Aspergillus cyaneus*"

- see IMI. 16, 137 *A. sydowi*

- Aspergillus deflectus* Fennell & Raper
61, 448 (T) Soil, Rio de Janeiro, Brazil, 1949. A. Cury—NRRL(2206).
- Aspergillus disjunctus* Bain. & Sart.
— IMI 16, 114 *A. repens*.
- Aspergillus eburneocremeus* Sappa
69, 856 (A) Mobilen Forest, Nr. Giuta river, Italian Somaliland. F. Sappa—
G. Smith(B. B. 354)—CMI, 1957.
- Aspergillus echinulatus* Thom & Church
16, 123 Linseed cake, Scotland. D. Snow—CMI, 1944.
32, 051 G. Smith(A. 15)—E. Yuill—CMI, 1948.
- Aspergillus effusus* Tirab.
16, 142 U.S.A. B. F. Nutman—Thom(130)—NCTC(973), 1921. (= Raistrick
Ac. 21, ATCC. 1010).
- Aspergillus ferrugineus* Fuckel
— see IMI. 16, 118 *A. sejunctus*.
- Aspergillus fischeri* Wehm.
16, 143 Garden soil, England, 1942. G. Smith(BB. 183). (= NCTC. 6581).
54, 402 Soil, Ibadan, Nigeria, 1953. W. L. Jackson(N. 49).
54, 403 Soil, Ibadan, Nigeria, 1953. W. L. Jackson(N. 50).
58, 373 Soil, N. Queensland, Australia. J. H. Warcup(SA. 95)—CMI, 1954.
— see also *A. malignus*.
- Aspergillus fischeri* Wehm. var. *glaber* Fennell & Raper
61, 447 (T) Rubber tyre scrap, Iowa, U.S.A., 1947. G. W. Martin(6354)—
NRRL(2163).
61, 450 (A) Garden soil, Adelaide, S. Australia, 1952. J. H. Warcup—
NRRL(2392).
- Aspergillus flavipes* (Bain. & Sart.) Thom & Church
16, 106 Sugar, India, 1938. G. Watts Padwick. (Cawnpore VIII).
16, 144 (A) Bainier—Thom(4640.402)—NCTC(3890), 1931. (= Raistrick
Ac. 73, NCTC 1716).
52, 107 Soil, Sudan. M. A. Nour—CMI, 1953.
55, 341 Soil, Mysore, India. C. G. Cutting—CMI, 1954.
- Aspergillus flavus* Link ex Fr.
15, 959 Fermented cacao, Aburi, Ghana(35), 1923. H. A. Dade.
16, 025 Termites, Sierra Leone, 1935. F. C. Deighton(M. 839).
16, 145 CBS—ATCC(1003)—Church(108)—NCTC(596), 1920. (= Raistrick
Ac. 16).
29, 481 Larva of *Apis mellifera* L. (causing Stone Brood disease), Hull,
1948. P. S. Milne.
31, 393 Maize seed, Southern Rhodesia. G. R. Bates(7820)—CMI, 1948.
39, 178(a) Groundnut seedling (assoc. with crown rot), Urambo, Tanganyika,
1950. I. A. S. Gibson.
40, 413 Sugar-cane stem, Jinja, Uganda, 1950. R. M. Nattrass(1341).
45, 542 A shoe, New Guinea, M. H. Downing(QM. 70. A)—CMI, 1951.
Actively attacks autoclaved wool.
49, 465 Locust, 1952. J. P. Stevenson—J. Walker.
52, 104 Soil, Sudan. M. A. Nour—CMI, 1953.
52, 140 NRRL(2210)—ATCC(11498).
52, 173 NRRL(492)—ATCC(11495).
52, 174 NRRL(627)—ATCC(11496).
52, 175 NRRL(1946)—ATCC(11497).
52, 176 NRRL(2211)—ATCC(11499).

- 57, 389 Pigeon (aspergillosis), Devon, 1952. P.K.C. Austwick(V. 76).
 57, 390 Turkey (aspergillosis), Cambridge, 1953. P.K.C. Austwick(V. 632).
 — see also 61, 268 *A. tamarii*
 68, 114 Cured coffee, Belgian Congo, 1956. R.M. Nattrass(2035).
- Aspergillus flavus* Link ex Fr. var. *rufus* Blochw.
 15, 958 Dryinid parasite, Njala, Sierra Leone, 1936. F.C. Deighton.
 16, 057 Contaminant of culture, Ghana—England, 1942. H.A. Dade.
- Aspergillus foetidus* Thom & Raper
 63, 763 Groundnut seedlings, Urambo, Tanganyika, 1951. I.A.S. Gibson(15).
- Aspergillus fonsecaeus* Thom & Raper
 38, 982 Air, Buitenzorg, Java, 1949. Boedijn & Reitsma(BR. 6/49).
- Aspergillus fumaricus* Wehm.
 16, 141(a) Neuberger—Thom(4668.2)—NCTC(1693), 1923. (= IMI. 16, 141b).
 16, 141(b) Neuberger—Raistrick(103)—NCTC(3892), 1931. (= IMI. 16, 141a).
- Aspergillus fumigatus* Fresen.
 16, 030 White egret (aspergillosis of lungs), London Zoo, 1920. S.R. Douglas
 —NCTC(367)—G. Smith. (Fide Soltys, Nature, 154, 550, 1944, produces
 aspergillin, bacteriostatic for *Mycobacteria*).
 16, 062 Barley grain, London, 1943. J.A. Freeman.
 16, 152 M.B. Church(118)—NCTC(982), 1921. (= Raistrick Ac. 71).
 16, 195 Jute fibre, Calcutta, 1940. S.W. Basu(14).
 25, 326 Owl (*Athene noctua*), London Zoo, 1922. N.S. Lucas—NCTC(1373), 1922.
 28, 646 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup(B. 48).
 34, 687 Calf (aborted foetus), Kent, 1949. G. Kershaw.
 35, 101 Calf (aborted foetus), Kent, 1949. G. Kershaw(31).
 35, 570 Calf (aborted foetus), Kent, 1949. G. Kershaw(243. SC).
 45, 266 Antrum of man, London, 1951. K. Maunsell.
 45, 338 J.H. Birkinshaw(M. 400)—CMI, 1951. Produces spinulosin.
 45, 546 A shoe, India. M.H. Downing(QM. 45. h)—CMI, 1951. Very actively
 cellulolytic.
 47, 565 Man, sputum, England, 1951. J. Walker(LSH).
 48, 338 Lungs of man, Edenbridge, Kent, 1951. K.F. Hinson.
 48, 339 Lungs of man, Deal, Kent, 1951. K.F. Hinson.
 48, 340 Lungs of man, Bromley, Kent, 1951. K.F. Hinson.
 51, 984 Microscope lens, Colombo, Ceylon, 1952. S. Nagamultri,
 Hygrophobic strain.
 57, 391 Aborted calf foetus, Devon, 1952. P.K.C. Austwick(V. 291).
 57, 392 Aborted calf foetus, Liverpool, 1953. P.K.C. Austwick(V. 649).
 69, 714 Strain A. 61 of R.R. Goodall & J.K. Landquist, ICI (Pharmaceuticals)
 Ltd.—CMI, 1957. Source of fumagillin.
- Aspergillus fumigatus* var. *helvolus* Yuill
 16, 153 (T) Mutant from *A. fumigatus* in culture, England, 1937. E. Yuill—
 NCTC(5911), 1939.
- Aspergillus funiculosus* G. Smith
 54, 397 (T) Soil, Ibadan, Nigeria, 1953. R.M. Jackson(15)—CMI—G. Smith
 (BB. 303).
- Aspergillus giganteus* Wehm.
 16, 154 CBS—Thom(138)—Raistrick(Ac. 87). G. Smith—CMI, 1948.
 24, 256 Beverage—G. Smith(BB. 128), 1948.
 54, 394 Soil, Ibadan, Nigeria, 1953. W.L. Jackson(N. 9).

Aspergillus glaucus gp.

53, 242 Microscope objective, Ceylon, 1953. S. Nagamultri. Growth and sporulation only on media of very high osmotic pressure (40% sucrose). No ascocarps.

53, 243 Ditto, another strain with similar characteristics.

Aspergillus gracilis Bain.

16, 400 Textiles, Manchester, 1930. G. Smith(BB.119).

Aspergillus humicola Chaudhuri & Sachar

— see *A. asperescens*

Aspergillus itaconicus Kinoshita

16, 119 (T) Juice of pickled plums ("Unesu"), Japan. Kinoshita-Blochwitz-CBS-G. Smith(A.48)-CMI, 1948.

45, 630 *Mangifera indica* shoots, Kenya, 1951. R. M. Nattrass (1383).

Aspergillus janus Raper & Thom

16, 065 (T) Soil, Panama, 1941. J. T. Bonner-Raper & Thom(NRRL.1787)-NCTC(6970), 1945.

Aspergillus janus var. *brevis* Raper & Thom

16, 066 Soil, Alameda, Mexico, 1942. W. B. Roos-Raper & Thom(NRRL.1935)-NCTC(6971), 1945.

Aspergillus japonicus Saito

15, 952 Contaminant of culture, Ghana(609), 1933. H. A. Dade.

29, 103 *Anisophyllea laurina* fruit, Njala, Sierra Leone, 1948. F. C. Deighton (M. 2647).

60, 323 Brazil. A. C. Batista-S. Gibson, 1955.

Aspergillus luchuensis Inui

15, 953 "Awamori" (alcoholic beverage), Japan. Hanzawa-Thom(4291.3)-NCTC(1017)-CMI, 1941. (= NRRL 356).

45, 629 Mango roots, Kenya, 1951. R. M. Nattrass(1382).

Aspergillus lutescens Bain. ex Thom & Church

13, 768 Contaminant of culture, 1947. G. Smith.

Aspergillus malignus Lindt

16, 061 Hay, England, 1938. R. Hull.

**Aspergillus manginii* Raper & Thom

50, 126 Plugs of culture vessels, Kenya, 1952. R. M. Nattrass(1754).

68, 766 Chocolate product, Slough, Middlesex. K. J. Gardner-CMI, 1957.

72, 050 Sugar bag, Stone, Staffs, 1958. W. M. Howroyd.

Aspergillus melleus Yukawa

49, 108 Contaminant of culture, Kenya, 1951. R. M. Nattrass(1601).

52, 102 Soil, Sudan. M. A. Nour-CMI, 1953.

Aspergillus minimus Wehm.

16, 133 (?T) [?Wehmer]-Kral-Raistrick(Ac. 68)-G. Smith-CMI, 1948. (= NCTC 3783).

Aspergillus multicolor Sappa

69, 857 (A) Forest soil, Italian Somaliland. F. Sappa-G. Smith(B. B. 356)-CMI, 1957.

Aspergillus nidulans (Eidam) Wint.

16, 040 CBS-CMI, 1942.

16, 643 Cotton lint, Bombay, India, 1947. M. K. Patel. Strain with large perithecia.

- 28, 644 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup(B.89).
 31, 386 Tobacco, assoc. with "barn rot", Southern Rhodesia. G.R. Bates (7111.D)—CMI, 1948.
 49, 026 Gum arabic, York, 1951. E. Yuill(A.106)—CMI, 1952.
 57, 395 Lungs of chicken (aspergillosis), England, 1953. P.K.C. Austwick. (V.415).
 72, 731 Soil, Baghdad, Iraq, 1958. M.K. Tolba(22).
 72, 733 Soil, Baghdad, Iraq, 1958. M.K. Tolba(24).
 75, 006 Banaras, India, 1948. A. Lal.
- Aspergillus nidulans* var. *acristatus* Fennell & Raper
 61, 453 (T) Fabric, New Mexico, U.S.A., 1952. M.E. Sorte(62X)—NRRL (2395).
- Aspergillus nidulans* var. *albus* Yuill
 16, 037 (T) Mutant in culture of *A. nidulans*. E. Yuill—NCTC(5912), 1937.
- Aspergillus nidulans* var. *echinulatus* Fennell & Raper
 61, 454 (T) Buenos Aires, Argentina, 1950. J. Winitsky(M-1-354)—NRRL (2394).
- Aspergillus nidulans* var. *latus* Thom & Raper
 45, 625 Gum arabic, York. E. Yuill—CMI, 1951.
 74, 181 (T) CBS—Thom(1909)—NRRL(200)—G. Smith.
- Aspergillus nidulans* mutant strains.
 38, 579 S. alpha
 38, 580 S. beta
 38, 581 S gamma
 38, 584 S zeta
 38, 595 S eta
 38, 586 S iota
- Aspergillus niger* van Tiegh.
 15, 241 (a) Punica granatum fruit, India, 1945. S.A. Malik.
 15, 955 Contaminant of culture, Kew, 1941. H.A. Dade.
 16, 107 Contaminant of culture, Kew, 1947. H.A. Dade.
 17, 454 G. Smith—CMI, 1947. Isolation used for testing mould-proofing.
 25, 325 Gwynne-Vaughan—NCTC (1214), 1922.
 27, 809 Bernhauer, Prague—Benkiser, Ladenberg—B.I.O.S.—NCTC(7193), 1946. "Strain XXII", citric acid production.
 31, 274 Man (otomycosis). Pijper(13) and Pullinger—NCTC(2390), 1927.
 31, 275 Man (otomycosis). Pijper(12) and Pullinger—NCTC(2389), 1927.
 31, 276 CBS—Thom(111)—Raistrick(Ac.2)—NCTC(3902), 1931. (= ATCC 1004, Raistrick Ac.13, NCTC. 594).
 31, 283 D.J.D. Nicholas, 1948. Mulder's "strain M", assay of Mg, Cu, Zn and Mo in soils.
 31, 821 Thom(167)—USDA(3528.7)—ATCC(1015). (= Raistrick(Ac.4), NCTC (3858a)). Production of citric acid.
 34, 169(a) Groundnut hypocotyls, Urambo, Tanganyika, 1949. I.A.S. Gibson—CMI, 1949.
 41, 871 K.B. Raper(NRRL.337)—ATCC(10254). Production of amylase in submerged culture.
 41, 873 H.T. Herrick & O.E. May(USDA.244-4704.878)—C. Thom—ATCC(6278). Production of citric acid. (= NRRL.368).
 41, 874 K.B. Raper(NRRL.599)—ATCC(9142). Production of citric acid from molasses.
 41, 875 K.B. Raper(NRRL.67)—ATCC(8740). Production of gluconic acid.
 41, 876 K.B. Raper(NRRL.3)—ATCC(9029). Production of gluconic acid.
 42, 053 Sisal boles, Tanga, Tanganyika, 1950. R.M. Nattrass.

- 42, 054 Groundnut crown rot, Kongwa, Tanganyika, 1950. R. M. Nattrass.
 44, 215 Grapes, Jerez de la Frontiera, Spain, 1950. H. R. Haselgrove.
 Wine cellar mould.
 44, 551 (?) Leather. M. H. Downing(QM.458). (=TC. 215-4247). Used in U.S.A.
 for testing mould-proofing.
 50, 565 C. Thom, U.S.D.A. strain 215-111—B. A. Stone—NRRL(322)—ATCC
 (1004). Produces cellulolytic enzymes.
 50, 566 NRRL(326)—B. A. Stone. Produces cellulolytic enzymes.
 57, 396 Chick (caseous lesions), Aberystwyth, 1952. P. K. C. Austwick(V.145).
 59, 374 Defence Research Labs., Victoria, Australia(SN.111)—CMI, 1955.
 Strain used for testing mould-proofing.
 59, 429 University of Madras(MUBL.1)—CMI, 1955.
 60, 286 NRRL(330)—CMI, 1955.
 63, 765 Groundnut seedlings, Urambo, Tanganyika, 1951. I. A. S. Gibson(29).
 70, 102 Defence Standards Lab., Australia. (DSL.132)—CMI, 1957. Strain
 used for tropic testing.
 75, 353 Canada, 1952. S. M. Martin(NRCA.1-233)—ATCC(11414). Wisconsin
 strain 72-4, for production of citric acid from molasses.
 76, 837 U.S.A., 1952. D. Perlman. (Wisconsin strain 72-2)—ATCC(11394).
 Production of hydroxyprogesterone.
- Aspergillus niveo-glaucus* Thom & Raper
 32, 050 G. Smith(A.16)—E. Yuill—CMI, 1948.
- Aspergillus novus* Bain. nom. nud.
 — see IMI. 16, 131. *A. repens*.
- Aspergillus nutans* McLennan & Ducker
 62, 874 (T) Soil, Australia. E. I. McLennan(4B.4)—CMI, 1956.
- Aspergillus ochraceus* Wilh.
 16, 264 M. B. Church(4065.1)—NCTC(979), 1921. (= Raistrick Ac. 23, ATCC. 1009).
 33, 910 Sauce espagnole, Tafo, Ghana, 1948. H. Owen (isolate No. 3).
 35, 038 Potato, Tafo, Ghana, 1949. H. Owen (isolate No. 10).
 63, 406 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith(C.1.d)—J. C. Cain.
- Aspergillus okazakii* Okaz.
 15, 962 Japan, Takahashi—Thom(4337)—Raistrick(Ac. 52)—NCTC(3787)—
 CMI, 1947.
- Aspergillus ornatus* Raper, Fennell & Tresner
 55, 295 (T) Soil, nr. Madison, Wisconsin, 1950. H. D. Tresner—NRRL(2256).
 63, 918 (A) Soil, Wisconsin, U.S.A.—NRRL(2291)—G. Smith(BB. 311A)—CMI,
 1956.
- Aspergillus oryzae* (Ahlb.) Cohn
 17, 299 A. Chaston Chapman—NCTC(965), 1921. Gives a high yield of diastase.
 44, 241 T. K. Walker—ATCC(7252), 1938. Conversion of sugars to kojic acid.
 44, 242 NRRL(692)—ATCC(9102), 1943. Production of amylase.
 51, 983 Oshima—Thom(USDA. 290. AoOld)—NRRL(458)—ATCC(10063).
 52, 141 NRRL(453)—ATCC(11500).
 52, 142 NRRL(696)—ATCC(11498).
 52, 143 NRRL(695)—ATCC(11489).
 52, 144 NRRL(2217)—ATCC(11493).
 52, 145 NRRL(2220)—ATCC(11494).
 52, 146 NRRL(694)—ATCC(11488).
 52, 147 NRRL(449)—ATCC(11487).
 52, 148 NRRL(2160)—ATCC(11492).
 52, 149 NRRL(697)—ATCC(11491).

Aspergillus ostianus Wehm.

- 15,960 CBS—Raistrick(Ac.35)—NCTC(3788), 1931. (= Thom 4724.35, NRRL. 420).
38,799 Chicory seed, Kenya, 1949. R.M.Nattrass(1291).

Aspergillus panamensis Raper & Thom

- 19,393 (T) Soil, Panama, 1941. J.T.Bonner—K.B.Raper (Strain 1785)—NCTC(6974).

Aspergillus paradoxus Fennell & Raper

- 61,446 (T) Opossum dung, Wellington, New Zealand. J.H.Warcup(A.28), 1948—NRRL(2162).

Aspergillus parasiticus Speare

- 15,957 (T) *Pseudococcus calceolariae* Mask., sugarcane mealy-bug, Hawaii. Speare—Thom(3509)—NCTC(975), 1921. (= Raistrick Ac.14, ATCC.1018, NRRL.502).

Aspergillus phoenicis (Corda) Thom

- 56,824 *Welwitschia* inflorescence, S.W.Africa, 1954. J.H.Swart(236).

Aspergillus proliferans G.Smith

- 16,105 (T) Cotton fabric, Manchester. G.Smith—NCTC(6546), 1943.

Aspergillus pseudoglaucus Blochw.

- 16,122 (T) Blochwitz—CBS—G.Smith(A.19), 1933. (= Thom & Raper 5343).

Aspergillus pulverulentus (McAlp.) Thom

- 24,300 Maize (from U.S.S.R.), Liverpool, 1948. K.G.Smith.

Aspergillus raperi Stolk & Meyer

- 70,947 (A) Grassland soil, Yangambi, Belgian Congo, 1953. J.Meyer(266)—CBS,
70,948 (A) Ditto. J.Meyer(310)—CBS. Strain with odour of phenol.
70,949 (T) Ditto. J.Meyer(23717)—CBS.

Aspergillus quadricinctus Yuill

- 48,583 (T) Cardboard, York, 1947. E.Yuill(A.46).
58,374 Soil, Northern Territory, Australia, 1954. J.H.Warcup(SA.14).

Aspergillus quadrilineatus Thom & Raper

- 45,624 Gum arabic, York. E.Yuill—CMI, 1951.

Aspergillus quercinus (Bain.) Thom & Church

- 1,177 Orange fruit, Rehovot, Palestine, 1939. Reichert(K.376).

Aspergillus repens (Corda) Sacc.

- 16,111 Dust in food store, Bristol, 1943. W.E.S.Brown.
16,113 Cacao, Leeds, 1943. E.W.Bentley.
16,114 Da Fonseca, Brazil—CBS—Raistrick(Ac.39)—NCTC(3776)—CMI, 1943, as "A. disjunctus".
16,131 G.Smith (Raistrick Ac.46)—CMI, 1943, as "A. novus Wehm. nom. nud."
50,673(a) Signalling apparatus, Chiswick, London, 1952. Supt. of Labs., London Transport Executive.

Aspergillus restrictus G.Smith

- 16,267 (T) Cloth, Manchester, 1931 or earlier. G.Smith(BB.94). (= NCTC. 6976 & 4155).
39,044 Soil, Nigeria, 1949. A.M.Reid.
48,557 *Colocasia esculenta*, Malaya, 1952. A.Johnston(C.CH.36).
68,226 ?Soil, Japan. S.Abe(FAT.1081)—CMI, 1957, as **Penicillium fuscoflavum* Abe (T).

- Aspergillus restrictus* var. B. G. Smith
16, 268 (T) Cotton fabric, Manchester, 1930. G. Smith(BB.83). (= NCTC.4156).
- Aspergillus ruber* Thom & Church
— see *A. sejunctus*
- Aspergillus rugulosus* Thom & Raper
16, 059 Soil, Sudan, 1940. A. S. Boughey(SF.17).
- Aspergillus schiemanii* Thom
16, 269 (T) Mutant in culture of *A. niger*, Germany. Schieman—CBS—
Raistrick(Ac.37)—NCTC(3781), 1931. (= Thom 3534c).
- Aspergillus sclerotiorum* Huber
56, 673 (T) Rotting apple, Oregon, 1929-32. G. A. Huber—C. Thom(5351)—
NRRL(415)—E. Yuill.
67, 759(b) Sunnhemp seed, Northern Rhodesia, 1956. A. Angus(22b).
- Aspergillus sejunctus* Bain. & Sart.
(Syn. *A. ruber* Thom & Church)
16, 038 Dried milk bag, Bristol, 1943. W. E. S. Brown.
16, 116 Copra, Keta, Ghana(567. B/3), 1932. H. A. Dade.
16, 118 V. Oyen—CBS—Raistrick(Ac.39)—NCTC(3777), 1931, as "*A. ferrugineus*
Fuckel". (= Thom 4724.39).
31, 399 Sugarcane pith, Southern Rhodesia. G. R. Bates(7756a)—CMI, 1948.
51, 112 Jam, Harrow, Middlesex, 1952. J. Hawkins.
71, 762 Hazel nut, Sudbury, Suffolk, 1957. R. Gooden.
- Aspergillus sparsus* Raper & Thom
19, 394 (T) Soil, La Lima, Honduras, 1942. L. A. Underkofler—K. B. Raper
(1933)—NCTC(6975).
- Aspergillus stellatus* Curzi
(Syn. *A. varicolor* Thom & Raper)
31, 394 Contaminant of culture, Southern Rhodesia. G. R. Bates—CMI, 1948.
53, 749 Soil, in an olive grove, Bougie, Algeria. G. Doguet.
60, 316 Brazil. A. C. Batista(256)—S. Gibson—CMI, 1955.
75, 124 Dung, Hyderabad, India, 1958. A. Salam.
75, 129 Dung, Hyderabad, India, 1958. A. Salam.
77, 894 Air, Karachi, Pakistan, 1959. M. S. Quraishi.
— see also *A. varicolor* var. *astellatus*
- Aspergillus sulphureus* (Fresen.) Thom & Church
40, 641 Mouldy "Toad-in-the-hole", Tafo, Ghana, 1949. H. Owen(698).
73, 462 Rabbit dung, San Francisco, U. S. A., 1958. S. Stribling.
- Aspergillus sydowii* (Bain. & Sart.) Thom & Church
16, 028 Fermented cacao, Ghana(550), 1932. H. A. Dade.
16, 137 CBS as "*A. cyaneus*"—Raistrick(Ac.97)—NCTC(3888), 1931.
35, 034 Potato, Tafo, Ghana, 1949. H. Owen(6).
50, 646 Herbarium drying paper, Njala, Sierra Leone, 1952. F. C. Deighton
(M. 4747).
53, 288 Cotyledon of broad bean, Cyprus, 1953. R. A. Altson(9/23/7).
63, 904 Desert soil, Mexico. J. Nicot(MEX. 56.1)—CMI, 1956.
— see also IMI. 16, 139 *A. versicolor*.
- Aspergillus sylvaticus* Fennell & Raper
61, 456 (T) Soil, Tafo, Ghana, 1950. C. F. Charter—NRRL(2398).
- Aspergillus tamarii* Kita
16, 129 Fermented cacao, Aburi, Ghana(35), 1923. H. A. Dade.

- 39,498 Soil, Tafo, Ghana, 1949. H.Owen(629).
 44,536 Groundnut seed, Urambo, Tanganyika, 1950. I.A.S.Gibson(90).
 56,820 Coffee borer beetle, *Xylotrechus quadripes*, Mysore, India, 1954.
 Coffee Res.Sta., Mysore.
 59,630 Maize grain, Tanganyika, 1955. G.B.Wallace(25A/55).
 61,268 Radio equipment, New Guinea. WADC(26)-QM(1223)-CMI, 1955.
 (U.S.Specification MIL-E-5272A as "A.flavus".) Test strain for
 mould-proofing.

Aspergillus terreus Thom

- 16,032 Punjaub, 1942. H.Chaudhuri(2).
 16,036 Apple fruit, Palestine. Perlberger-Reichert(K.332)-CMI, 1939.
 16,043 Raistrick(Ac.100)-F.T.Brooks-NCTC(3911), 1931.
 16,044 Sugar, India, 1939. G.Watts Padwick(XIV).
 17,294 (T) Soil, U.S.A. M.B.Church(Washington 144)-NCTC(981), 1921.
 (= Raistrick Ac.24, ATCC.1012, NRRL.255).
 28,622 Rice grain, England. E.Yuill-CMI, 1948.
 35,576 Man (ear), London, 1949. C.Warren.
 44,243 NRRL(1960)-ATCC(10020), 1946. Production of itaconic acid.
 44,339 G.Smith(BB.45). Production of terrein.
 45,543 A haversack, New Guinea. M.H.Downing(QM.82.j)-CMI, 1951.
 Actively attacks autoclaved wool.
 57,397 Aborted calf foetus, Leeds, 1952. P.K.C.Austwick(V.237).

Aspergillus terreus var. *africanus* Fennell & Raper

- 61,457 (T) Soil, Tafo, Ghana, 1950. C.F.Charter-NRRL(2399).

Aspergillus terricola Marchal var. *americanus* Marchal

- 16,127 (T) Soil, Georgia, U.S.A. F.M.Scales-Washington-NCTC(974)-
 E.Yuill-CMI, 1949. (= Raistrick Ac.22).

Aspergillus thomii G.Smith

- 45,644 (T) Contaminant of culture, London, G.Smith(BB.213)-CMI, 1951.

Aspergillus umbrosus Bain. & Sart.

- 32,049 G.Smith(A.37)-E.Yuill-CMI, 1948.
 32,379 Fermented cacao, 1948. E.Yuill(A.83)-CMI, 1948.

Aspergillus unguis (E.Weil & Gaud.) Thom & Raper

- 60,313 Brazil. A.C.Batista(264)-S.Gibson, 1955.

Aspergillus unilateralis Thrower

- 62,876 (T) Soil, Australia. E.I.McLennan(2600/27)-CMI, 1956.

Aspergillus ustus (Bain.) Thom & Church

- 16,045 CBS-CMI, 1942.
 16,102 Fermented cacao, Aburi, Ghana(588), 1932. H.A.Dade.
 16,237 Fermented cacao, Aburi, Ghana(576), 1932. H.A.Dade.
 19,392 (A) Bainier-Thom-CBS-Raistrick(Ac.84)-NCTC(3757). 1931.
 (?= Thom 4640.488).
 28,643 Soil, Lakenheath Warren, Suffolk, 1948. J.H.Warcup(B.125).
 31,385 Tobacco (assoc. with barn rot), Southern Rhodesia, G.R.Bates(7111c).
 1948.
 33,909 Sauce espagnole, Tafo, Ghana, 1948. H.Owen(2).
 39,503 Capsid lesion on cacao, British Cameroons, 1949. J.West-H.Owen
 (639).
 40,414 Contaminant in culture from a root, Kenya, 1950. R.M.Natrass(1352).
 45,552 Indiana, U.S.A. M.H.Downing(QM.891). Used in U.S.A. for testing
 mould-proofing.

Aspergillus variegator Thom & Raper

- see *A.stellatus*.

Aspergillus variegator var. *astellatus* Fennell & Raper

61,455 (T) ?Ilex leaves, Galapagos Is., 1946. G.W. Martin(6273)—NRRL(2396).

Aspergillus versicolor (Vuill.) Tirab.

- 16,139 CBS—Raistrick(59)—NCTC(3906), 1931. As *A. sydowi*.
- 28,621 England, E. Vuill(A.75)—CMI, 1948.
- 28,645 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup(B.59).
- 31,396 Apple fruit, Southern Rhodesia. G.R. Bates(7644F)—CMI, 1948.
- 40,636 Paper label, Tafo, Ghana, 1949. H. Owen(681).
- 40,496(b) Brassica sp. dead stem, Chobham, Surrey, 1950. S.J. Hughes.
- 45,554 Cellophane, India. M.H. Downing(QM.432). (= MIT.1C)—CMI, 1951.
- 49,124 Contaminant of culture, Njala, Sierra Leone, 1951. F.C. Deighton (M.4665). With bifurcated, tuberculate, conidiophore stalks.
- 57,426 Claw of dog, London, 1953. P.K.C. Austwick(V.593/2).
- 71,358 Theodolite lens, Malaya, 1957. Isol. H.A. Dade. Atypical strain, growth only on media of very high osmotic pressure (40% sucrose).

Aspergillus violaceo-fuscus Gasp.

- 16,135 Blochwitz (as *A. atropurpureus*)—CBS—Raistrick(Ac.44)—NCTC(3792), 1931. (= Thom 4724.44). Referred to *A. violaceo-fuscus* by M.B. Church.
- 45,373 Duck cotton, Port Harcourt, Nigeria, 1951. A.C. Reid(732).
- 54,395 Soil, Ibadan, Nigeria, 1953. W.L. Jackson(N.10).
- 54,396 Soil, Ibadan, Nigeria, 1953. W.L. Jackson(N.11).
- 54,400 Soil, Ibadan, Nigeria, 1953. W.L. Jackson(N.35).
- 60,064(a) Seedling oil palms, Nigeria, 1954. R.A. Bull(70/54).
- 63,766 Tea flowers, Assam. E. Hainsworth—I.A.S. Gibson(34), 1951.

Aspergillus violaceus Fennell & Raper

61,449 Soil, Tafo, Ghana, 1950. C.F. Charter—NRRL(2240).

Aspergillus viridinutans Ducker & Thrower

62,875 (T) Soil, Frankston, Australia. E.I. McLennan(RAB.7)—CMI, 1956.

Aspergillus wentii Wehm.

- 16,033 *Michelia champaca*, dead branch, Mauritius, 1935. E.F.S. Shepherd.
- 17,295 (T) Wehmer—CBS—M.B. Church (Washington 116), 1909—NCTC(597). (= NRRL.375).
- 23,013 New Zealand. J.C. Neill(511)—NCTC(5608), 1938.
- 23,014 New Zealand. J.C. Neill(634b)—NCTC(5608a), 1938.
- 31,256 Contaminant of culture, Kew, 1948. H.A. Dade.
- 35,035 Potato, Tafo, Ghana, 1948. H. Owen(7).
- 39,510 A prune, Tafo, Ghana, 1949. P.M. & H. Owen(662).
- 49,129 Contaminant of culture, Njala, Sierra Leone, 1951. F.C. Deighton (M.4670).
- 51,433 E.O. Karow—R. Gordon—CMI, 1953. Producing citric acid in submerged culture.

Asteromyces cruciatus F. & R. Moreau

- 53,748 (A) Soil of sand dunes, France. F. Moreau—G. Doguet.
- 60,913 Roots of *Ammophila arenaria*, England, 1955. J.C. Brown(D.32).

Bactrodesmium caulinicola (Corda) Grove var. *pellucidum* Grove

— see *Camposporium pellucidum*.

Beauveria bassiana (Bals.) Vuill.

- 12,939 Le Mout—CBS—CMI—NCTC(1801), 1924.
- 12,943 *Scolytus intricata*. E.J. Butler (as *B. globulifera* (Speg.) Picard)—NCTC(1142), 1921.
- 39,889 Pigmy mangold beetle, Cambridge, 1949. M.A. Keay.
- 44,229 *Diatrea saccharalis*, Venezuela, 1950. R.E. Pontis.
- 49,823 *Artiona catoxantha* larva, Malaya, 1952. A. Johnston.
- 61,345 An insect, Forest of Dean, 1955. A.H.S. Brown.

- Beauveria densa* (Link) Picard
 12,942 Fly, Ceylon. Petch-NCTC(2227), 1926.
 61,252 An insect, Berkhamstead Common, 1955. A.H.S.Brown.
 68,048 Earwig on Yew, Boxhill, Surrey, 1956. A.H.S.Brown.
- Beauveria stephanoderis* (Bally) Petch
 12,944 (T) *Stephanoderes hampei*, Ceylon. Petch-NCTC(2226), 1926.
- Beltrania multispora* Swart
 72,432 (T) Sand near mangrove swamp, Inhaca I., Mozambique, 1957. H.J. Swart.
- Biatorella difformis* (Fr.) Wainio
 68,125(b) *Pinus* stump, Brandon, Suffolk. J.Rishbeth-CMI, 1956.
 68,387 Scots pine stump, Cambridge. J.Rishbeth-CMI, 1957.
 69,012 *Picea glauca*, Kananaskis, Alberta, Canada, 1953. R.J.Bourchier.
 (DACF.1046)-J.W.Groves-CMI, 1957, as *Retinocyclus abietis* (Crouan) Groves & Wells (A).
 70,854(b) Pine stump, Brandon, Suffolk. J.Rishbeth-CMI, 1957.
- Biatorella resinae* (Fr.) Mudd
 68,125(a) *Pinus* stump, Brandon, Suffolk. J.Rishbeth-CMI, 1956.
 68,738 *Pinus contorta*, Kirkhill Forest, Scotland. S.Batko-CMI, 1957.
 70,854(a) Pine stump, Brandon, Suffolk. J.Rishbeth-CMI, 1957.
- Bispora antennata* (Pers. ex Fr.) Mason
 68,057 Rotten Wood, Chatsworth Park, Derbyshire, 1956. S.Francis.
- Bispora pusilla* Sacc.
 52,634 Pine timber from a water cooling tower, Gibraltar, 1953. J.G. Savory(S.684).
- Blennoria* sp.
 45,540 Nylon plate, Indiana, U.S.A. M.H.Downing(QM.590)-CMI, 1951.
- Botryodiplodia ananassae* (Sacc.) Petr.
 80,379 India, 1960. S.N.Bhargava.
- Botryodiplodia palmarum* (Cooke) Petrak & Sydow
 60,542 *Elaeis guineensis* leaves, Benin, Nigeria, 1955. J.S.Robertson(A3/55).
- Botryodiplodia theobromae* Pat.
 55,950 Cashew root, Tanganyika, 1953. M.M.Wallace(399/53).
 61,204 Zea mays, Ibadan, Nigeria, 1955. R.H.Cammack(MR/324).
 71,394 Piper nigrum, Sarawak, N.Borneo, 1957. P.Holliday(HS 130).
- Botryosphaeria ribis* Grossenb. & Dugg.
 36,476 *Aleurites montana* (die back), Nyasaland, 1949. P.O.Wiehe(220).
 45,825 H.Fawcett-CBS-CMI, 1951.
- Botryosporium longibrachiatum* (Oud.) Maire
 46,396 Tomato, Cambridge, 1951. J.Ives-R.W.G.Dennis.
- Botryotrichum piluliferum* Sacc. & March.
 49,832 Air, York, 1952. E.Yuill.
 51,266(c) Plaster & wall-paper, London, 1941. H.E.Hinton-F.L.Balfour-Browne (as *Sepedonium albo-griseum* (T)).
 68,736 Cellophane buried in sandy loam soil, Hildersham, Cambridge.
 H.Tribe(298A)-CMI, 1957.
 78,453 Soil, Egypt, 1959. H.M.Yusef(D.292).

Botrytis allii Munn

- 15, 276 Brown—CBS—NCTC(4788), 1935.
 42, 078 Onion bulb, Richmond, Surrey, 1950. H.A. Dade.
 61, 987 A. Hewlett—C. T. Ingold—CMI, 1956.
 63, 948 P. W. Brian, 1948—G. Smith(BB. 231).

Botrytis cinerea Pers. ex Fr.

- 24, 002 Banana, England. Isol. at NCTC(6098), 1940. Spores somewhat larger than type.
 42, 077 Apple, Richmond, Surrey, 1950. H.A. Dade.
 42, 089 Vegetable marrow, Watford, Herts., 1950. W. O. Harper.
 52, 058 *Hibiscus cannabinus*, Southern Rhodesia, 1953. A. Rothwell(M.R. 11477).
 71, 800 *Asparagus plumosus*, Guernsey, C.I. D. J. Harrison—CMI, 1958.
 76, 832 Mangold roots, Guernsey, Channel Is., 1959. D. J. Harrison(249).

Botrytis fabae Sardiña

- 50, 374 *Vicia faba*, "chocolate spot", Cambridge, 1952. R. Leach.
 79, 681 *Vicia faba*, Rothamsted Exp. Sta., Harpenden, Herts., 1960. F. T. Last (B6/4).

Botrytis grisella Sacc.

- see *Hansfordia grisella*

Botrytis spectabilis Harz

- 60, 069 Soil in mushroom house, Stourport, Worcs., 1955. W. R. Rosset.

Botrytis tulipae Lind

- 55, 314 Dutch tulip bulbs, Giza-Orman, Egypt, 1953. Abd El Kader & M. El Zarka(3700).
 76, 834 Tulip bulbs, Guernsey, Channel Is., 1959. D. J. Harrison(253).

Brachysporium crepini (Westendorp) Sacc.

- see *Curvularia crepini*.

Brunchorstia destruens Erikss.

- 56, 680 Corsican pine, Dalby, Yorks., 1954. S. Batko.

Byssoschlamys fulva Olliver & Smith

- 40, 021 K. B. Raper(NRRL. 1125)—G. Smith, 1949.
 58, 421 (T) Bottled fruit, Great Britain, 1933. T. Rendle—G. Smith(BB. 134)—A. H. S. Brown(Pa. 24). (Ascospores no longer produced.)
 58, 422 (A) Soil, Long Ashton, Somerset, 1947. S. W. Challinor—G. Smith (BB. 134. A)—A. H. S. Brown(Pa. 25).
 58, 426 (A) Soil, G. B. T. Rendle—G. Smith(X. 6a), 1934—A. H. S. Brown(Pa. 29).

Byssoschlamys nivea Westl.

- 16, 256 CBS—M. Olliver—NCTC(5688), 1939.
 58, 423 Soil, Cambridge. J. H. Warcup—G. Smith(BB. 250), 1950—A. H. S. Brown (Pa. 26).
 60, 262 Silage, England, 1955. B. B. Till.

Calcarisporium arbuscula Preuss

- 31, 480 *Lactarius* sp., Masham, Yorks., 1948. S. J. Hughes.
 58, 784 *Hygrophorus pratensis*, Yorks., 1954. C. J. La Touche.
 60, 865 *Cladium mariscus*, Askham Bog, York, 1955. J. Webster. On old *Dasyphypha*.
 68, 083 *Russula nigricans*, Ruislip Woods, Middx, 1956. A. H. S. Brown.

Calonectria graminicola (Berk. & Br.) Wollenw.

- see *C. nivalis*.

Calonectria nivalis Schaffnit

63, 222 Oats, Scotland. M. Noble—CMI, 1956.

Calonectria rigidiuscula (Berk. & Br.) Sacc.

61, 808 Capsid lesions on cacao, Ghana, 1955. G. Usher.

61, 047(b) Durio zibethinus, Malaya, 1955. A. Johnston[C(NS)80].

62, 573 Triticum sp., G. B. P. Karijakasoon—CMI, 1956.

72, 021 Cashew twig, Ghana, 1957. L. Piening. (= W. L. Gordon 4419).

74, 199(b) Cacao, Spanish Guinea, 1958. E. Hainsworth.

77, 037(a) Cacao, Kakumon, Lae, New Guinea, 1959. D. Shaw(2323).

77, 038(b) Cacao, Narakapor Pln., Markham Valley, New Guinea, 1959. D. Shaw.
(2324).

Candelabrum spinulosum van Beverwijk

52, 463 (A) Decaying vegetable matter in pond, near Ommen, Holland, 1949.

A. L. van Beverwijk.

Candida albicans (Robin) Berk.

45, 348 Man ("thrush"), London, 1920. Craik—NCTC(714)—P. W. Brian(BRL/320).

Cephalophora tropica Thaxt.

45, 555 Shoe leather, Guadalcanal, Solomon Is. M. H. Downing(QM. 596)—

CMI, 1951. (= JQMD. 956).

74, 900 Chicken dung, Guam, Marianne Is., 1958. S. Stribling.

Cephalosporium acremonium Corda

44, 138 Maize, Tanganyika, 1950. G. B. Wallace.

77, 044 Explosives, 1959. Hueck—CBS.

Cephalosporium aphidicola Petch

68, 689 Trialeurodes vaporariorum, G. B. N. W. Hussey—CMI, 1957.

Cephalosporium coccorum Petch

(Syn. *Verticillium coccorum* (Petch) Westerdijk)

54, 860 CBS—CMI, 1953.

Cephalosporium eichorniae Padw.

46, 241 Calopogonium mucunoides, Njala, Sierra Leone, 1951. F. C. Deighton
(M. 3829).

Cephalosporium gramineum Nisik., Mats. & Tam.

80, 179 Wheat plants, Kincardineshire, Scotland, 1958. E. G. Gray—M. Noble.

Cephalosporium lecanii Zimm.

(Syn. *Verticillium lecanii* (Zimm.) Viegas)

79, 606 Pulvinaria floccifera on tea, Turkey, 1960. O. Özbas.

Cephalosporium longisporum Petch

21, 167 (A) T. Petch—NCTC(1862), 1924.

Cephalosporium salmosynnematum Roberts

— *Emericellopsis salmosynnemata*

Cephalosporium subverticillatum Schulz & Sacc.

16, 259 Petroleum, Italy. O. Verona—NCTC(4470), 1934.

Cephalosporium sp.

49, 137 The sea off Sardinia. G. Brotzue—K. Crawford—CMI, 1952. Source of
cephalosporin.

Ceratocystis coerulescens (Münch) Bakshi

32, 291 Pine log, Watford, Herts., 1948. W.O. Harper.

Ceratocystis fimbriata Ellis & Halst.

74, 746 Beetle gallery in cacao bark, Bellevue Estate, Trinidad, 1958. M.B. Morris.

Ceratocystis paradoxa (Dade) Moreau

(Syn. *Ceratostomella paradoxa* Dade)

39, 075 (A) Coconut endosperm, London, 1950. G. Smith(BB. 246).

45, 851 (A) *Cupressus macrocarpa*, Kenya, 1951. R.M. Nattrass.

50, 560 (A) Pineapple fruit rot, Malaya, 1952. A. Johnston.

50, 577 (A) Cacao husks, Asuansi, Ghana, 1952. J.J. Obeng.

60, 109 (A) Cotton duck, Didsot, Berks., 1955. E.S.L. Jones(86/2).

62, 012 (A) *Sandoricum indicum*, Muar, Malaya, 1955. A. Johnston(C/NS/97).

77, 668 (A) Rotted coconut fibre, Jute Res. Inst., Tejgam, India, 1959. I.A. Ahmed(123).

78, 293 (A) Cacao husk, Tafo, Ghana, 1959. A.L. Wharton.

78, 294 (A) Cultural mating 77, 668 x 78, 293 (Indian and Ghanaian strains), 1959. CMI/CC.

79, 766 (A) *Elaeis guineensis*, Nigeria, 1960. J.S. Robertson.

Ceratocystis piceae (Münch) Bakshi

(Syn. *Ceratostomella piceae* Münch, *Ophiostoma piceae* (Münch) H. & P. Syd.)

20, 171 Japanese larch, assoc. with *Trypodendron lineatum*, Scotland. B.K. Bakshi(1)—FPRL(395)—CMI, 1949.

Ceratocystis pilifera (Fr.) Moreau

(Syn. *Ceratostomella pilifera* (Fr.) Wint.)

25, 316 Pine timber, U.S.A. USDA(89681)—FPRL(S. 83)—CMI, 1948.

Ceratocystis radicola (Bliss) Moreau

36, 479 (T) Date palm, California. Bliss—CBS—CMI, 1949.

Ceratostomella paradoxa Dade

— see *Ceratocystis paradoxa*.

Ceratostomella piceae Münch

— see *Ceratocystis piceae*.

Ceratostomella pilifera (Fr.) Wint.

— see *Ceratocystis pilifera*.

Ceratostomella radicola Bliss

— see *Ceratocystis radicola*.

Cercoseptoria cydoniae Scharif

69, 900 (T) Quince leaf, Iran, 1957. G. Scharif.

Cercospora beticola Sacc.

77, 043 Beet, Netherlands, 1951. G. van den Ende—CBS.

Cercospora concors (Casp.) Sacc.

70, 826 Potato, Nairobi, Kenya, 1957. R.M. Nattrass(2124).

Cercospora elaeidis Steyaert

53, 566 *Elaeis guineensis*, Belgian Congo, 1953. W.G. Kovachich.

57, 372 *Elaeis guineensis* seedlings, Nigeria, 1954. R.A. Bull(70-5).

Cercospora ferruginea Fuckel

70, 101 *Artemisia vulgaris*, Silwood Expt. Sta., Sunningdale, Berks., 1957. D. A. Reid.

77, 880 *Artemisia vulgaris*, Fairmile Common, Cobham, Surrey, 1959. F. C. Deighton.

Cercospora salina Sutherland

24, 351 Seaweed (*Chondrus crispus*), Aberystwyth, Wales, 1946. I. M. Wilson.

79, 612 Salt marsh soil, G. B., 1960. G. Pugh.

Cercosporella herpotrichoides Fron

77, 873 Wheat, Rothamsted Experimental Station, England, 1957. P. H. Gregory.

Cerebella andropogonis Cés.

56, 825 *Cynodon dactylon*, S. Africa, 1954. H. J. Swart(249).

Chaetocladium brefeldii van Tiegh & Le Monn.

80, 480 Rabbit dung, Bignor Hill, Sussex, 1960. S. Scott.

Chaetocladium jonesii (Berk. & Br.) Fresen.

40, 066 Parasitizing *Mucor mucedo*, Bangor, Wales, 1950. C. G. Dobbs.

Chaetomidium fimeti (Fuckel) Zopf ex Sacc.

43, 920 Man, Greifswald, Germany, 1950. Dr. Jung—CBS.

Chaetomium angustispirale Sergejeva

74, 952 (T) Elm wood, Balashevskaja, U. S. S. R. E. A. Oganova—K. S. Sergejeva—CMI, 1958.

Chaetomium atroporum Skolko & Groves

75, 851 Fig leaf, Greek-Yugoslav border, 1958. G. Sörgel(G. 8).

Chaetomium bostrychodes Zopf

39, 574 Seed oats, Co. Down, N. Ireland, 1949. J. P. Malone(233. C/48).

39, 725 Rabbit dung, London, 1930. W. M. Page.

54, 764 Soil, England, 1953. G. W. F. Sewell—A. H. S. Brown.

67, 946 Rabbit dung, Richmond Park, Surrey, 1956. J. Hawkins.

76, 828 Tomato xylem, Guernsey, Channel Is., 1959. D. J. Harrison(243).

Chaetomium brasiliense Bat. & Pont.

(Syn. *C. hamatum* Bat. & Pont., *C. repandum* Bat. & Pont., *C. velutinum* Ames)

31, 638 Jute, Calcutta. S. N. Basu(117)—CMI, 1948.

42, 201 (T) Dung of *Cavia cobaya*, Brazil, 1947. A. C. Batista.

44, 212 Tent. G. W. Martin(J. 359. APO. 565. J. 1m)—L. M. Ames—A. J. Skolko, 1950.

45, 557 Tent canvas, New Guinea. M. H. Downing(QM. 623) as *C. velutinum*—CMI, 1951.

Chaetomium cancroideum Tschudy

12, 267 Reeds, Washington, U. S. A. Tschudy(1044. 4)—L. M. Ames—CMI, 1947.

Chaetomium circinatum Chivers

75, 852 Indet. leaf, Ulan Bator, Mongolia, 1957. G. Sörgel(4707).

Chaetomium cochliodes Pall.

14, 577 Linseed, Aberystwyth, Wales, ?1944. I. M. Wilson.

17, 458 CBS (as *C. globosum*)—G. Smith.

39, 726 Dickson—W. M. Page—CMI, 1950.

39, 727 Saltant No. 4, Dickson—W. M. Page—CMI, 1950.

39, 728 Saltant No. 7A. Dickson—W. M. Page—CMI, 1950.

- 40, 424 Saltant No. SS8. Dickson—W. M. Page—CMI, 1955. (= M. Tveit's "strain A" highly antagonistic to *Calonectria graminicola*).
- 44, 204 Pea seed, St. Bernardin, Ontario, 1945. A. J. Skolko (DAOM. 18073).
- 78, 644 Rhizosphere of tea plant, India, 1959. C. S. Venkataram.
- Chaetomium convolutum* Chivers
73, 521 Hare's dung, nr. Quedlinburg, Germany, 1958. G. Sörgel (0334).
- Chaetomium crispatum* Fuckel
75, 853 Oak leaf, Hakel, Quedlinburg, Germany, 1958. G. Sörgel (0556).
- Chaetomium deustum* Bat. & Pont.
— see IMI. 42, 200 *C. globosum*.
- Chaetomium dolichotrichum* Ames apud Greathouse & Ames
12, 264 (T) Cade's Cove, Tenn., U.S.A. L. M. Ames (1044.7)—CMI, 1945.
- Chaetomium elatum* Kunze & Schmidt ex Fr.
17, 424(a) Basket of compost, Yaxley, Northants, 1947. C. J. La Touche.
32, 248 Alfalfa seed, Canada. J. Walton Groves (Ottawa Herb. No. 15090)—CMI, 1940.
46, 313 Contaminant of culture, G. B., 1950. I. C. I. Dyestuffs Division (3.93).
- Chaetomium erectum* Skolko & Groves
32, 249 (T) Parsley seed, Milford, Conn., U.S.A., 1943. J. Walton Groves (Ottawa Herb. No. 14205).
- Chaetomium funicola* Cooke
32, 250 Hairy vetch seed, Guelph, Ontario, 1945. J. Walton Groves.
32, 251 Bean seed, Summerland, British Columbia, 1947. J. Walton Groves.
32, 544 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup (TNI/1).
33, 911 Cacao root tissue culture, Tafo, Ghana, 1947. H. Owen.
34, 530 Seed oats, Co. Fermanagh, N. Ireland, 1948. J. P. Malone (12.C/47).
- Chaetomium globosum* Kunze ex Fr.
16, 203 Paper, Calcutta, 1942. S. M. Basu (79). Isolation used for testing mould-proofing.
17, 367 Damp wall, Clapham, London. H. Gwynne-Vaughan—NCTC (1246) as *C. pannosum* Wallr., 1932.
42, 200 Leaves of *Manihot utilisima*, Brazil. A. C. Batista (as *C. deustum* Bat. & Pont., FIPA. 1152).
45, 550 M. H. Downing (QM. 459) (USDA. 1042.4). Used in U.S.A. for testing mould-proofing.
57, 400 Skin of calf, Cumberland, 1952. P. K. C. Austwick (V. 57/3).
- Chaetomium hyderabadense* Salam & Nusrath
75, 168 (T) Cow dung, Hyderabad, India, 1958. A. Salam.
- Chaetomium indicum* Corda
16, 202 Jute, Calcutta, 1940. S. N. Basu (75).
32, 247 Flax seed, Montreal, 1945. J. Walton Groves (Ottawa Herb. No. 15760, as *C. dolichotrichum*).
57, 401 Mouldy hay, Ayr, 1953. P. K. C. Austwick (V. 418/6).
- Chaetomium microcephalum* Ames apud Greathouse & Ames
12, 265 (T) Cade's Cove, Tenn., U.S.A. L. M. Ames (1045.0)—CMI, 1945.
- Chaetomium murorum* Corda
36, 633 Soil, Ampthill Forest Nursery, Beds., 1949. H. J. Warcup (E. 59).
54, 765 Soil, England, 1953. G. W. F. Sewell—A. H. S. Brown.
68, 391 Rabbit dung, Richmond Park, Surrey, 1956. J. Hawkins.

- Chaetomium ochraceum* Tschudy
12, 268 (A) Reeds, Washington State, U.S.A. Greathouse & Ames(1044.5)
—CMI, 1944.
- Chaetomium olivaceum* Cooke & Ellis
32, 543 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup(B.175).
- Chaetomium pachypodioides* Ames
12, 266 (T) Great Smoky Mountains, Tenn., U.S.A. L.M. Ames(1044.3)—
CMI, 1948.
- Chaetomium perlucidum* Sergejeva
74, 954 (T) Dead herbaceous stems incubated in damp chamber, Kiev, Ukraine.
W. G. Lavitscaja—K. S. Sergejeva—CMI, 1958.
- Chaetomium quadrangulatum* Chivers
78, 686 Rabbit dung, Chatsworth Park, Derbyshire, 1959. Univ. of Sheffield
(2402).
- Chaetomium reflexum* Skolko & Groves
32, 252 (T) Pepper seeds, Toledo, Ohio. Skolko & Groves(42-I-426 B)—
Ottawa Herb. (14201)—CMI, 1948.
- Chaetomium semen-citrulli* Sergejeva
74, 953 (T) Fox dung incubated in damp chamber, Turkmenistan, U.S.S.R.,
E. N. Koschkelova—K. S. Sergejeva—CMI, 1958.
- Chaetomium seminudum* Ames
75, 854 Leaf fragments in soil sample from Lushan, China, 1958. G. Sörgel
(8517).
- Chaetomium spinosum* Chivers
47, 190 Soil, Great Britain. Stenton(W.141)—CMI, 1952.
- Chaetomium spirale* Zopf
45, 556 Tropical America. M. H. Downing(QM. 622)—CMI, 1951.
- Chaetomium subspirale* Chivers
75, 855 Leaf fragments in a soil sample from Chungking, China, 1958. G.
Sörgel(8356).
- Chaetomium succineum* Ames
44, 210 (A) G. W. Martin(J-6359)—L. M. Ames—A. J. Skolko, 1950.
- Chaetomium tetrasporum* Hughes
5, 639 (T) Contaminant of culture, Cardiff, 1944. S. J. Hughes.
- Chaetomium tortile* Bain.
61, 329 Rabbit dung, Isle of Man, 1953. W. M. Page.
- Chaetomium trilaterale* Chivers
62, 160 Apple, Southern Rhodesia, 1955. G. R. Bates(MR. 13484).
- Chaetomium velutinum* Ames
— see *C. brasiliense*.
- Chaetopsina fulva* Rambelli
62, 199 (T) *Cedrus deodara*, Italy. A. Rambelli—CMI, 1956.
- Chaetosphaeria callimorpha* (Mont.) Sacc.
63, 517(a) Rubus, Ranmore, Common, Surrey, 1956. C. Booth.

Chaetosphaeria pulviscula (Curr.) Booth

62, 983 Quercus, Three Meadows Wood, E. Bergholt, Suffolk, 1956. C. Booth.

Chaetostylum fresenii van Tiegh. & le Monn.

63, 114 Meat from Argentina, England, 1956. M. L. Allport.

68, 074 Rotten meat, Cambridge, 1920. F. T. Brooks(J)—J. N. Lythgoe.

Chalaropsis thielavioides Peyron.

36, 934(a) Beech floor board. Junckers Savvaerk, Saell, Denmark, 1949.

E. W. Mason.

Chlamydomyces palmarum (Cooke) Mason

38, 124 *Elaeis guineensis*, Nigeria, 1949. J. M. Waterston(1103).

39, 639 Seed oats, Co. Fermanagh, Northern Ireland, 1948. J. P. Malone.

Chlamydosporium submersum Peyronel

62, 531 (A) Soil, Italy, 1954. A. Mosca—B. Peyronel.

Chloridium musae Stahel

79, 492 *Musa sapientum*, Cameroons, 1959. Millenstead—J. E. Heron.

Choanephora circinans (Naganishi & Kawakami) Hesselt. & C. R. Benjamin

78, 521 (T) Grassland soil, Nanatsukahava, Hiroshima, Japan. H. Naganishi (HUT. 1057)—Inst. Ferment. Osaka(5991), 1955—NRRL(2545).

78, 522 Soil, Trinidad, R. W. Jackson—NRRL(2546)—CMI, 1959.

78, 523 Soil, Trinidad, R. W. Jackson—NRRL(2547)—CMI, 1959.

78, 524 Soil, Trinidad, R. W. Jackson—NRRL(2548)—CMI, 1959.

Choanephora cucurbitarum (Berk. & Rav.) Thaxt.

76, 560 Grassland soil, Banaras, India, 1958. R. Y. Roy.

78, 273(a) *Hibiscus rosa-sinensis* flowers, Njala (Kori), S'a Leone, 1959.
C. T. Pyne(M. 6974).

Choanephora infundibulifera (Currey) Cunningham

77, 848 *Hibiscus rosa-sinensis* flowers, Njala (Kori) S'a Leone, 1959. C. T. Pyne(M. 6572).

78, 273(b) *Hibiscus rosa-sinensis* flowers, Njala (Kori), S'a Leone, 1959.
C. T. Pyne(M. 6974).

78, 274 *Hibiscus rosa-sinensis* flowers, Njala (Kori), S'a Leone, 1959.
C. T. Pyne(M. 6975a).

78, 275 *Hibiscus rosa-sinensis* flowers, Njala (Kori), S'a Leone, 1959.
C. T. Pyne(M. 6975b).

78, 525 Soil, Georgia, U.S.A. J. Miller—NRRL(2562)—CMI, 1959.

78, 526 Japan, H. Naganishi(HUT. 1072)—Inst. Ferment., Osaka(5987), 1955—NRRL(2560).

78, 527 Japan, H. Naganishi(HUT. 1074)—Inst. Ferment., Osaka(5988), 1955—NRRL(2561).

Chromocrea spinulosa (Fuckel) Petch ex Brooks & Math.

— see *Hypocrea spinulosa*

Ciliospora gelatinosa Zimm.

75, 840 Leaves of *Thea sinensis*, Nilgiris, S. India, 1958. C. S. Venkata Ram.

Circinella mucoroides Saito

17, 745(b) England, E. Yuill—G. R. Bisby—CMI, 1947.

40, 067 CBS—C. J. Dobbs—CMI, 1950.

75, 147 Dung, Hyderabad, India, 1958. Abdus Salam.

77, 986 Horse dung, Colombo, Ceylon, 1959. B. L. T. de Silva(112).

Circinella muscae (Sorok.) Berl. & De Toni

40, 634 Cat dung, Tafo, Ghana, 1949. H. Owen(670).

73, 461 Rabbit dung, San Francisco, U.S.A., 1958. S.Stribling.

Circinella nigra Bain.— see *C. muscae*.*Circinella rigida* G.Smith

45, 645 (T) Soil, Lakenheath Warren, Suffolk. J.H.Warcup—G.Smith(BB.247)—CMI, 1951.

Circinella umbellata van Tiegh. & Le Monn.

54, 855 ?Rat dung, Australia, 1953. R.F.Langdon.

75, 146 Dung, Hyderabad, India, 1958. Abdus Salam.

Cirrhomycetes caudiger v. Hohn.

68, 326 Soil, Woburn Exp. Sta., England. E.A.Peterson(18)—CMI, 1956.

Cladosporium avellaneum de Vries— see *C. resinae**Cladosporium chlorocephalum* (Fresen) Mason & M.B.Ellis

48, 108(a) Paeonia, dead stem, Lambourne Hill., Perranzabuloe, N. Cornwall, 1951. F.Rilstone.

Cladosporium cladosporioides (Fresen.) de Vries

17, 853 Air above Gulf of Carpentaria, 1947. I.V.Newman(79).

25, 324 Arundo leaf, Kew, 1943. G.R.Bisby (as "standard strain of *C. herbarum*" NCTC. 6740). Designated lectotype of *C. cladosporioides* by De Vries.45, 534 A floor, Penn., U.S.A. M.H.Downing(QM.489) as *C. herbarum*—CMI, 1951. Paint mould.

49, 623 Wheat. Bennett—CBS, 1929—G.A.de Vries(Strain 1).

49, 624 Hassell—CBS, 1949—G.A.de Vries(Strain 2).

49, 625 Tengwall—CBS, 1921—G.A.de Vries(Strain 6).

49, 626 Raistrick(4079) —CBS—G.A.de Vries.

49, 693 Sorghum seed, Tanganyika, 1952. J.S.Hemingway.

59, 473 Earthworms, Scotland, 1955. M.Kamel.

61, 418(b) Passiflora edulis, Nyasaland, 1955. D.C.M. Corbett(G.2).

Cladosporium cladosporioides f. *pisicola* (Snyder) de Vries

49, 627 (A) Peas, California. Snyder—CBS, 1935. G.A.de Vries.

Cladosporium colocasiae Sawada

76, 795 Colocasia, New Caledonia, 1959. F.Bugnicourt.

Cladosporium cucumerinum Ell. & Arth.

49, 628 Cucumber, Baarn, 1951. G.A.de Vries.

63, 231 Cucumis sativus, Southern Rhodesia, 1956. A.Rothwell(MR.14026).

Cladosporium elatum (Harz) Nannf.

49, 629 Melin(389.14)—CBS, July, 1933—G.A.de Vries.

Cladosporium fulvum Cooke

50, 487 Tomato, Saki Valley, Southern Rhodesia, 1952. A.Rothwell.

54, 976 Tomato, Fernhurst, Surrey. P.Day(4)—CMI, 1953. Race 1.

54, 977 Tomato, Forton, Lancs. P.Day(19)—CMI, 1953. Race 5.

54, 978 Tomato, Sidlesham, Sussex. P.Day(106)—CMI, 1953. Race 2.

54, 979 Tomato, Wigton, Cumberland. P.Day(199)—CMI, 1953. Race 8.

54, 980 Tomato, W.Chiltington, Sussex. P.Day(238)—CMI, 1953. Race 9.

Cladosporium herbarum (Pers.) Link ex Fr.

- 15, 372 Wireworm (*Agriotes sputator*), Lincolnshire, 1947. B. A. Cooper.
 49, 630 Apple leaf, Baarn, 1949. Dr. Feekes—G. A. de Vries (Strain 2).
 49, 632 Loos—CMI, 1931—G. A. de Vries (Strain 4).
 — see also *C. cladosporioides* IMI. 25, 324 and 45, 534.

Cladosporium macrocarpum Preuss

- 49, 452 Air, Cardiff, 1952. Merfyn Richards.
 49, 634 Pileus of *Cantharellus cibarius*, Holland, 1951. G. A. de Vries (Strain 2).
 49, 635 *Mycosphaerella tulasnei*. Heald—CBS, 1931—G. A. de Vries (Strain 3).
 72, 915 Beta trigyna stems, Dunholme, Lincoln, 1958. C. E. Cornford.

Cladosporium resinae (Lindau) De Vries f. *avellaneum* De Vries

- 68, 131 Pine stump, Brandon, Suffolk. J. Rishbeth(5)—CMI, 1956.

Cladosporium resinae (Lindau) de Vries f. *resinae* De Vries

- 49, 621 (T) Ointment, Utrecht, 1947. G. A. de Vries.
 68, 388 Creosoted telegraph pole. FPRL(5131)—J. Rishbeth, 1952.

Cladosporium sphaerospermum Penzig

- 49, 636 Nail. Tellier—G. A. de Vries, 1948 (Strain 1).
 49, 637 Nail. Zappey—G. A. de Vries, 1949 (Strain 2).
 49, 638 Engelhardt—G. A. de Vries (Strain 3).
 49, 639 *Nicotiana tabacum*. Jochems—CBS, 1933—G. A. de Vries (Strain 4).
 49, 640 Begonia stem rot, Aalsmeer, Holland, 1947. G. A. de Vries (Strain 5).
 49, 641 Janke—CBS, 1949—G. A. de Vries (Strain 6).
 61, 886 Painted wood, Guernsey, 1955. L. Ogilvie.
 68, 989 Whitefly, G. B. N. W. Hussey—CMI, 1957.
 71, 936 Kuala Lumpur, Malaya, 1957. A. Johnston(C(NS)176).
 80, 121 Air, Pakistan, 1960. M. S. Quraishi(X15).
 80, 123 Air, Pakistan, 1960. M. S. Quraishi(X17).

Cladosporium variabile (Cooke) de Vries

- (Syn. *Helminthosporium variabile* Cooke; *Heterosporium variabile* Cooke)
 49, 642 *Spinacia oleracea*, Baarn, 1948. G. A. de Vries (Strain 1).
 49, 643 *Spinacia oleracea*. Labrousse—CBS, 1931—G. A. de Vries (Strain 2).

Cladosporium sp.

- 63, 403 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith(A. 2. d)—J. C. Cain.
 63, 405 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith(B. 2. b)—J. C. Cain.
 63, 407 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith(C. 1. c)—J. C. Cain.

Clasterosporium maydicum Sacc.

- see *Pithomyces maydici*

Clathrospora diplospora (Ellis & Everh.) Wehm.

- 68, 086 *Anemone occidentalis*, Mount Shasta, California, U. S. A., 1947.
 W. B. Cooke(20285). (= QM. 1278).

Clathrospora elynae Rabenh.

- 68, 085 *Juncus mertensianus*, Mount Shasta, California, U. S. A., 1946.
 W. B. Cooke(18427). (= QM. 1277).

Claviceps purpurea (Fr.) Tul.

- 44, 613 Ryegrass seed, Northern Ireland, 1941. A. E. Muskett(19).

Clinotrichum lanosum Cooke

- (Syn. *Rhinotrichum lanosum* (Cooke) Cooke)

- 51, 266(b) Plaster and wall-paper, London, 1941. H. E. Hinton—F. L. Balfour-Browne.

- Cochliobolus miyabeanus* (Ito & Kurib.) Drechs. (Syn. *Ophiobolus miyabeanus* Ito & Kurib.)
 68, 761 Rice, State Agricultural Research Institute, W. Bengal, India. S. B. Chattopadhyay (H. 2)—CMI, 1957.
 69, 750 Rice leaf, Dacca, Pakistan, 1956. H. A. Zaman (Helm. 1).
 69, 753(c) Rice leaf, Pakistan, 1956. M. A. Matin (Helm. 5).
- Cochliobolus nodulosus* Luttrell
 72, 110 (A) Georgia, U.S.A. (-) E. S. Luttrell (1208-93)—CMI, 1958.
 72, 111 (A) Georgia, U.S.A. (+) E. S. Luttrell (1208-58)—CMI, 1958.
- Cochliobolus sativus* (Ito & Kurib.) Drechs. ex Dastur (Syn. *Helminthosporium sativum* Pamm., King, & Bakke.)
 21, 195 CBS—Raistrick (Ag. 94)—NCTC (4083), 1931.
 73, 101 *Bromus marginatus*, Manbourn, Brisbane, Australia, 1958. J. H. Simmonds (N. 1316).
 75, 633 Cocksfoot (*Dactylis*) seed in germinator, Dorset. P. Hewitt (196).
- Coemansia aciculifera* Linder
 73, 340 Soil, Castroville, Cal., U.S.A., 1956. D. H. Ford—R. K. Benjamin (RSA. 476).
 73, 341 Soil, Occidental, Cal., U.S.A., 1956. D. H. Ford—R. K. Benjamin (RSA. 477).
- Coemansia mojavnensis* Benjamin
 73, 342 (T) Rat dung, 81 m. N. of Vidal, Cal., 1953. R. K. Benjamin (RSA. 71).
- Coemansia pectinata* (Coemans) Bain.
 61, 308 Soil, G. B. J. H. Warcup (B73)—G. Smith (BB. 242), 1955.
- Cokeromyces recurvatus* Poitras
 77, 585 Rat dung, Twentynine Palms, Cal., U.S.A., 1955. R. K. Benjamin (RSA. 345).
- Colletotrichum atramentarium* (Berk. & Br.) Taubenh.
 61, 249 Tomato, Southern Rhodesia, 1955. A. Rothwell (MR. 13426).
 78, 352 Potato, Cambridge, 1959. M. Kostrowicka.
 78, 581 Potato, Cambridge, 1959. M. Kostrowicka.
- Colletotrichum capsici* (Syd.) Butler & Bisby
 56, 173 *Arachis voandzeia*, Tanganyika, 1954. J. Hemingway (84/54).
 62, 477 Groundnut, Malaya, 1956. A. Johnston (C/NS/106).
 62, 560 Piper betle, Karachi, Pakistan, 1956. M. M. Shariff.
 63, 596 *Peperomia magnolifolia*, India, 1956. S. N. Das Gupta (D/C-IA).
 63, 597 *Peperomia magnolifolia*, India, 1956. S. N. Das Gupta (D/C-IB).
 69, 096 *Malpighia puniceifolia*, Balda Gardens, Dacca, E. Pakistan, 1957. Saeed-ul-Haq & Abdul Wahfoor.
 77, 634 Piper betle, E. Pakistan, 1959. Abdul Wadud.
- Colletotrichum corchori* Ikata & Yoshida
 61, 677 *Corchorus capsularis*, Dacca, Pakistan, 1955. Q. A. Ahmed (Q. 1).
 77, 636 *Corchorus capsularis*, Dacca, Pakistan, 1959. Abdul Wadud.
- Colletotrichum curvatum* Briant & Martyn
 45, 525 Sunn hemp, Southern Rhodesia, 1951. G. R. Bates (Herb. S. Rhod. 9377(i)).
- Colletotrichum dematium* (Pers. ex Fr.) Grove
 80, 025 *Peperomia* sp. J. von Arx—C. L. A. Leakey—CMI, 1960.
- Colletotrichum destructivum* O'Gara
 69, 991 White clover stems, New Zealand. I. D. Blair—CMI, 1957.
- Colletotrichum gossypii* Southw.
 79, 535 Cotton seedlings, U.S.A. N. D. Fulton (610)—C. L. A. Leakey—CMI, 1959.

- 79,566 Cotton seedling, U.S.A., 1957. K. Bollenbacher(612.Mn)—ATCC(12788).
 79,567 Reisolation from experimentally infected cotton seedling, U.S.A., 1957. C.H. Arndt(57-3)—ATCC(12937).
 79,568 Katsura—Nat. Inst. Agric. Res., Tokyo(1097)—CMI, 1960.
 79,973 Cotton, Kyushu, Japan, 1937. Tokyo Univ.(A.7).
- Colletotrichum gossypii* Southw. var. *cephalosporioides* A.S. Costa
 61,315 Cotton plants, assoc. with anthracnose, Maracay, Venezuela, 1955. G. Malaguti.
 80,023 Cotton plants, Porto Ferreira, Brazil, 1960. A.P. Viegas—C.L.A. Leakey.
- Colletotrichum graminicola* (Ces.) Wilson
 79,041(b) Sorghum, Kano, Nigeria, 1959. Oliver.
- Colletotrichum indicum* Dastur
 79,569 India, V.P. Bhide—C.L.A. Leakey—CMI, 1960.
- Colletotrichum lindemuthianum* (Sacc. & Magn.) Bri. & Cav.
 63,364 Bean pod, assoc. with anthracnose, France. Roussel Laboratories, Ltd.(UCLAF 230)—CMI, 1956. This strain is the subject of British Patent (19 918/56).
- Colletotrichum phomoides* (Sacc.) Chester
 17,310 Tomato, Washington, U.S.A.—F.T. Brooks—NCTC(1130), 1921.
- Colletotrichum piperis* Petch
 71,397 Piper nigrum, Sarawak, 1957. P. Holliday(HS 134).
 79,736 Piper maginatum v. *catalpaefolium*, Trinidad, B.W.I., 1960. G.J. Turner(5).
- Colletotrichum tabacum* Böning
 50,187 Nicotiana tabacum, Rajahnundry, India, 1952. B.S. Kadam.
 54,048 Nicotiana tabacum seed, Lusaka, Northern Rhodesia, 1953. E.A. Riley.
- Conidiobolus rhyosporus* Drechsler
 68,880 Apothecia of *Ascobolus* sp., on cow dung, Box Hill, Surrey, Oct. 1956. V. Dring(18/3).
- Conidiobolus villosus* Martin
 — see *Entomophthora coronata*
- Coniochaeta discospora* (Auersw.) Cain
 55,678 Soil, England, 1953. G.W.F. Sewell(C.32).
- Coniochaeta hansenii* (Oud.) Cain
 68,392 Rabbit dung, Richmond Park, Surrey, 1956. J. Hawkins.
- Coniophora puteana* (Schum. ex Fr.) Karst.
 79,127 FPRL(11E)—CMI, 1959. For study of clamp connections.
- Coniosporium corticale* Ell. & Everh.
 — see *Cryptostroma corticale*.
- Coniothyrium minitans* Campbell
 51,358 *Sclerotium trifoliorum* in soil, nr. Tillingham, Essex, 1952. H. Tribe.
- Coprotrichum purpurascens* Bonord.
 — see *Sporendonema purpurascens*
- Cordyceps gracilis* (Grev.) Dur. & Mont.
 16,573(a) *Hepialus* larvae, Harpenden, Herts. A. Smith—P.H. Gregory(722).

- Cordyceps militaris* (L.) Link
58, 448 Insect, Virginia Water, Surrey, 1952. Á.H.S. Brown (Pa. 57). (Conidial).
- Coremiella ulmariae* (McWeeney) Mason apud Hughes
(Syn. *Stysanus ulmariae* McWeeney)
36, 938 *Picea abies*, Sjaelland, Hørsholm, Skordtrikt, Denmark, 1949.
E. W. Mason.
- Corticium evolvens* Fr.
80, 101 *Tilia cordata*, Idd, Øst Pold, Norway, 1957. F. Roll-Hansen (1616/2).
- Corticium fuciforme* (Berk.) Wakef.
45, 478 Turf, Northern Ireland. J. P. Malone—CMI, 1951.
- Corticium micro-sclerotia* Weber
69, 909 *Brassica juncea*, India, 1957. Govinda Rao.
- Corticium praticola* Kotila
34, 886 Bean seedlings, Slough, Bucks., 1949. N. Flentje ("Bean 5")—E. M. Wakefield.
34, 887 Bean seedlings, Slough, Bucks., 1949. N. Flentje ("Bean 4")—E. M. Wakefield.
- Corticium salmonicolor* Berk. & Br.
80, 502 Nikina—CBS—CMI, 1960.
- Corticium solani* (Prill. & Delacr.) Bourd. & Galz.
39, 933 Wheat straw, Rothamsted, Herts., 1949. M. Glynne.
44, 225 Potato, England. RCS(R. 55)—CMI, 1950.
44, 226 Seakale, England. N. Montgomery (26)—CMI, 1950.
61, 527(a) *Elaeis guineensis*, Belgian Congo, 1955. W. G. Kovachich.
61, 793 Louisiana, U.S.A. B. Exner—CMI, 1956, as *Pellicularia filamentosa* (Pat.) Rogers f. *solani* (Kuhn) Exner (A).
61, 795 Louisiana, U.S.A. B. Exner—CMI, 1956, as *Pellicularia filamentosa* (Pat.) Rogers f. *sasakii* (Shirai) Exner (A).
61, 796 Fig leaves, Louisiana, U.S.A. B. Exner—CMI, 1956, as *Pellicularia filamentosa* (Pat.) Rogers f. *timsii* Exner (T).
68, 031 *Helianthus tuberosus* × *H. macrophyllus*, Kenya, 1956. R. M. Nattrass (2034).
68, 996 *Arachis hypogea*, India. M. S. Kang (23)—CMI, 1957.
70, 816 Coffee seedlings, Balehonnur, Mysore, India, 1957. Coffee Board Res. Sta.
70, 825 Strawberry roots, Limuru, Kenya, 1957. R. M. Nattrass (2114).
70, 827 Strawberry roots, Nanyuki, Kenya, 1957. R. M. Nattrass (2125).
71, 573 Soil, Taita Exp. Sta., N. Zealand, 1956. R. H. Thornton (SB 304).
72, 931 *Phyllanthus niruri*, leaf rot, Kuala Lumpur, Malaya, 1958. A. Johnston (1862).
72, 932 *Digitaria marginata*, Kuala Lumpur, Malaya, 1958. A. Johnston (1863).
74, 406 *Melinis minutiflora*, Kuala Lumpur, Malaya, 1958. A. Johnston (C/NS/195).
75, 144 Dung, Hyderabad, India, 1958. A. Salam (28).
76, 658 *Crotalaria juncea*, Coconut Res. Sta., Kayangulam, S. India, 1954.
78, 354 *Phaseolus vulgaris*, Samaru, Zaria, Nigeria, 1959. E. Harris.
78, 358 *Voandzia subterranea*, Samaru, Zaria, Nigeria, 1959. E. Harris (515).
- Corynè sarcoides* (Jacq. ex Fries) Tul.
68, 130 Pinus stump, Brandon, Suffolk. J. Rishbeth (4)—CMI, 1956.
68, 831 Rotten wood, Lincolnshire, 1956. G. M. Waterhouse.
- Corynespora cassiicola* (Berk. & Curt.) Wei
56, 007 Tomato leaves, Cuttock, India, 1953. U. N. Mohanty (C. 1. 2).

- 61, 173 *Elaeis guineensis* leaves, Nigeria, 1955. J. S. Robertson (L. 3. 55).
 63, 402 Air, Jamaica, 1956. C. H. Hassall & B. S. W. Smith (A. 2. a)—J. C. Cain.
- Corynespora smithii* (Berk. & Br.) M. B. Ellis
 5, 649(b) Beech wood and bark, Ranmore Common, Surrey, 1946. M. B. Ellis.
- Cryptosporella eugeniae* Nutman & Roberts
 56, 425(a) *Eugenia* bark, Malaya, 1954. W. J. Cherewick.
- Cunninghamella blakesleeana* Lendner
 63, 877 Strain H-334. F. R. Hansen et al. (steroid research)—ATCC(8688)—CMI, 1956.
- Cunninghamella echinulata* Thaxt.
 25, 327 G. W. Martin, Iowa—NCTC(1792), 1924.
 44, 534(a) Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson(73).
 45, 772 Greenhouse soil, Kenya, 1951. R. M. Nattrass(1462).
 53, 585 K. B. Raper(NRRL. 1369)—ATCC(8688a)—CMI, 1953. (+) m. 53586.
 53, 586 K. B. Raper(NRRL. 1368)—ATCC(8688b)—CMI, 1953. (-) m. 53585.
 78, 440 Soil, Egypt, 1959. H. M. Yusef(B. 184).
- Cunninghamella elegans* Lendner
 21, 198 W. H. Wilkins, Oxford—NCTC(6536), 1943. (+) m. 21199.
 21, 199 W. H. Wilkins, Oxford—NCTC(6537), 1943. (-) m. 21198.
 54, 601 Soil, Ibadan, Nigeria, 1953. W. L. Jackson.
- Curvularia affinis* Boedijn
 38, 975 (A) Cassava leaves, Buitenzorg, Java, 1948. Boedijn & Reitsma (B. R. 6/48)—CMI, 1949.
 58, 645 Soil, Belgian Congo, 1954. J. Meyer(189).
- Curvularia andropogonis* (Zimm.) Boedijn
 38, 980 *Andropogon nardus* leaves, Buitenzorg, Java, 1948. Boedijn & Reitsma(B. R. 26/48).
- Curvularia comoriensis* Bouriquet & Jauffret
 62, 707 (A) *Cymbopogon citratus*, Comoro Is., 1956. G. Bouriquet.
 62, 708 (A) Ditto.
- Curvularia crepinii* (Westend.) Boedijn
 (Syn. *Brachysporium crepini* (Westend.) Sacc.)
 605 *Ophioglossum vulgatum*, Warbush, Hickling Broad, Norfolk, 1945. E. A. Ellis.
- Curvularia fallax* Boedijn
 58, 646 Soil, Belgian Congo, 1954. J. Meyer(190).
 61, 525 Leaves of oil palm seedling, Yaligimba, Belgian Congo, 1955. W. G. Kovachich(1002).
 62, 486 Rice, Malaya, 1956. A. Johnston(C/NS/119).
 62, 529(b) Dead wood, Sierra Leone, 1956. C. T. Pyne(M. 6478. a).
 79, 732 *Piper aduncum*, Trinidad, B. W. I., 1960. G. J. Turner(1).
 79, 739 *Pothomorphe peltata*, Trinidad, B. W. I., 1960. G. J. Turner(6).
- Curvularia geniculata* (Tracy & Earle) Boedijn
 (Syn. *Helminthosporium geniculatum* Tracy & Earle)
 32, 573 Leaf culture, Malaya. R. N. Hilton(152)—CMI, 1948.
 49, 781 Soil, Dacca, Pakistan. Q. A. Ahmed(40)—CMI, 1952.
 68, 977 Oil palm, Layang Layang, Johore, Malaya. A. Johnston(C. 159)—CMI, 1956.
 69, 539 Culture contaminant, Kew, 1957. C. Booth.
 75, 138 Dung, Hyderabad, India, 1958. A. Salam(22).

Curvularia lunata (Wakker) Boedijn(Syn. *Acrothecium lunatum* Wakker)

- 61, 535 Tarpaulin, New Guinea. QM(120h)—CMI, 1955. Subject of U.S. Patent by Chas. Pfizer & Co., Inc., Concerning oxygenation of steroids.
 62, 104 *Cynodon dactylon*, Spain, 1955. J. Drew Smith(325).
 69, 261 Soil, Iraq. M.K. Tolba(17)—CMI, 1957.
 77, 007 Soil, Egypt, 1959. H.M. Yusef(B. 192).
 77, 020 Soil, Egypt, 1959. H.M. Yusef(B. 289).

Curvularia maculans (Bancr.) Boedijn

- 24, 440 Hevea leaf culture, Malaya, 1948. R. N. Hilton(116).
 38, 972 (A) *Andropogon sorghum*, Buitenzorg, Java, 1948. Boedijn & Reitsma (B. R. 1/48).
 58, 112(a) *Sorghum* grain, Njala, Sierra Leone, 1954. F. C. Deighton(M. 6219. A)
 62, 337 Soil, Belgian Congo, 1955. J. Meyer(20175).
 74, 823 Oil palm, Selangor, Malaya, 1958. A. Johnston.

Curvularia oryzae Bugnicourt

- 52, 252 (A) *Oryza sativa*, Indo-China. F. Bugnicourt—Mycothèque, Paris—CMI, 1953.

Curvularia pallescens Boedijn

- 52, 827 Rice, Hyderabad, India, 1953.
 62, 484 Rice, Malaya, 1956. A. Johnston(C/NS/117).
 62, 485 Rice, Malaya, 1956. A. Johnston(C/NS/118).

Curvularia spicifera (Bain.) Boedijn(Syn. *Helminthosporium spiciferum* (Bain.) Nicot)

- 56, 353 Tomato seedlings, Egypt, 1954. W. E. Ashour.
 61, 533 J. Nicot—CBS—CMI, 1955.
 71, 924 *Calotropis procera*, Khartoum, Sudan. Omer Hassan Giha(C/PI)—CMI, 1958.
 77, 008 Soil, Egypt, 1958. H. M. Yusef(B. 205).
 77, 924 Wheat, Poona, India, 1959. M. K. Desai.
 79, 158 Seed coat of cereal, Egypt, 1959. A. Kilani.

Curvularia trifolii (Kaufm.) Boedijn

- 74, 799 *Trifolium repens*, Cooran, Queensland, Australia, 1958. J. H. Simmonds(N. 1445).

Curvularia trifolii (Kaufm.) Boedijn f. sp. *gladioli* Parmelee & Luttrell

- 75, 377 *Gladiolus*, Singapore, Malaya, 1958. W. P. Ting(1893).

Curvularia uncinata Bugnicourt

- 52, 253 (A) *Oryza sativa*, Indo-China, 1947. F. Bugnicourt—Mycothèque, Paris (694)—CMI, 1953.

Cylindrocarpon congoense Meyer

- 69, 504 (T) Dead fruits of *Desplatzia deweorei*, Yangambi, Belgian Congo. J. Meyer(233)—CMI, 1957.

Cylindrocarpon effusum Bugnicourt

- 55, 921 (A) Indo-China. F. Bugnicourt.

Cylindrocarpon olidum Wollenw.

- 73, 501(b) Coconut, Keta, Ghana, 1958. R. I. Leather(CB. 2804).

Cylindrocarpon radicola Wollenw.

- 43, 574 *Agrostis* (?) *tenuis*, New Zealand, 1950. I. D. Blair.
 61, 536 Feekes—CBS—CMI, 1955.
 69, 097(b) Lupin, Tanganyika, 1957. A. Riley(172).

- 71, 577 Soil, Taito Exp. Sta., New Zealand, 1957. R. H. Thornton(S. B. 308).
 74, 423 Human skin, Bristol, 1958. M. English—J. Walker—G. Smith(BB. 364).

Cylindrocarpon reteaudii Bugnicourt

- 55, 922 (A) Indo-China. F. Bugnicourt.

Cylindrocarpon tenue Bugnicourt

- 63, 862(h) *Theobroma cacao*, Sierra Leone. C. T. Pyne(M. 6494)—CMI, 1956.
 68, 205 (A) *Indigofera indecaphylla*, Indo-China. F. Bugnicourt—J. Nicot(M. P. 540)—CMI, 1957.

Cylindrocarpon tonkinense Bugnicourt

- 55, 920 (A) Indo-China. F. Bugnicourt.

Cylindrocladium quinqueseptatum Boedijn & Reitsma

- 78, 332 *Eucalyptus* sp., leaf spot, Malaya, 1959. W. P. Ting.

Cylindrocladium scoparium Morgan

- 61, 680 Leaves of *Annona squamosa*, Cuttack, Orissa, India, 1955. U. N. Mohanty(1).

Dactylaria pyriformis Juniper

- 56, 803 (T) Cow dung, Langdon Hills, Essex, 1953. A. J. Juniper. Captures nematodes.

Dactylaria scaphoides Peach

- 50, 675 (T) *Typha latifolia* leaves & plant debris, Wisley Pool, Surrey, 1950. S. M. Dixon.

Deightonella torulosa (Syd.) M. B. Ellis

- 44, 312 Green fruit of *Musa cavendishii*, Devonshire, Bermuda, 1950. J. M. Waterston(1142).

Delitschia furfuracea Niessl

- 71, 790 Rabbit dung, Richmond Park, Surrey, 1957. J. Hawkins.

?*Dematium nigrum* Link

- 17, 467 Bainier Coll'n—M. B. Church, Washington(4719.3)—NCTC(1745), 1924.

Dendrophoma obscurans (Ellis & Everh.) Anderson

- 42, 124 Strawberry leaves, Tanganyika, 1950. G. B. Wallace.

Dendryphiella arenaria Nicot

- 67, 735 (T) Sand dune, nr. Arcachon, Gironde, France, 1956. J. Nicot(ARC/8).

Dendryphion atrum Corda

- see *Dendryphiopsis atra*.

Dendryphion laxum Berk. & Br.

- 31, 291 Sacking, Guernsey, 1948. E. W. Mason.
 79, 903 Raspberry roots, Mylnefield, Invergowrie, Dundee, Scotland, 1960. A. R. Wilson(68).

Dendryphion penicillatum (Corda) Fr.

- see *Pleospora papaveracea*.

Dendryphiopsis atra (Corda) Hughes

- (Syn. *Dendryphion atrum* Corda)
 41, 303 *Cupressus macrocarpa*, Kenya, 1950. R. M. Nattrass(1264).

- Dichomera saubinetii* (Mont.) Cooke
79, 813 ?*Corylus*, Silwood Park, Sunninghill, Berks., 1960. B. C. Sutton.
- Dictyosporium toruloides* Gueg.
5, 634 *Corylus* wood and bark, Ranmore Common, Surrey, 1946. S. J. Hughes.
- Dictyostelium discoideum* Raper
69, 094 (A) K. B. Raper—CBS—CMI, 1957.
- Dictyostelium lacteum* v. Tiegh.
73, 506 *Rhinoceros* dung, San Francisco Zoo, 1958. S. Stribling.
- Dictyostelium mucoroides* Bref.
50, 356 Bean leaves, Cambridge, 1952. B. J. T. Baldwin—R. Leach.
74, 707(b) Old lichen, Denny Wood, New Forest, Hants., 1958. M. Pione.
- Didymella lycopersici* Kleb.
61, 313 Tomato stem, Grouville, Jersey, 1955. States Exp. Sta. (55/A/330/1).
61, 314 Ditto. (55/A/330/2).
- Dimargaris bacillispora* Benjamin
77, 586 (T) Mouse dung, Jent's Lake, San Bernardino Mts., Cal., U.S.A., 1957. R. K. Benjamin(RSA592). (Now on *Cokeromyces recurvatus*).
- Dimargaris cristalligena* van Tiegh.
77, 587 Mouse dung, Evey Canyon, San Gabriel Mts., Calif., U.S.A., 1956. R. K. Benjamin(RSA468). (Ex neotype). (Now on *Cokeromyces recurvatus*).
77, 588 Mouse dung, Sunset Peak, San Gabriel Mts., Cal., U.S.A., 1957. R. K. Benjamin(RSA585). (Now on *Cokeromyces recurvatus*).
- Dimargaris verticillata* Benjamin
77, 589 (T) Mouse dung, Rancho Santa Ana Botanic Garden, Claremont, Cal., U.S.A., 1957. R. K. Benjamin(RSA527). (Now on *Cokeromyces recurvatus* Poitras).
- Diplococcium avellaneum* Sappa & Mosca
67, 827 Soil, Italian Somaliland, 1956. J. Meyer.
- Diplodia sapinea* (Fr.) Fuckel
57, 821(b) *Pinus pinaster*, timber mill, Melbourne, Australia, 1954. N. E. Walters(DFP.4702).
- Diplodina castaneae* Prill. & Delacr.
77, 379 *Castanea sativa*, Janjac, Ardeche, France. J. Grente(818)—CMI, 1959.
- Discella carbonacea* (Fr.) Berk. & Br.
79, 807 *Salix* ?*caprea*, Silwood Park, Sunninghill, Berks., 1960. B. C. Sutton.
- Dispira cornuta* van Tiegh.
77, 590 Mouse dung, Cajon, Cal., U.S.A., 1958. R. K. Benjamin(RSA632). (Now on *Cokeromyces recurvatus* Poitras).
77, 591 Dung, Springville, Tulane Co., Cal., U.S.A., 1958. R. K. Benjamin(RSA 670). (Now on *Cokeromyces recurvatus* Poitras).
- Dothiorella ribis* (Fuckel) Sacc.
— see *Botryosphaeria ribis*.
- Dothiorella ulmi* Verrall & May
45, 826 Goss—CBS—CMI, 1951.

Echinobotryum atrum Corda

- 43, 604 Seed oats, Belfast, N. Ireland, 1946. J. P. Malone(53. D).
 43, 605 Seed oats, Belfast, N. Ireland, 1946. J. P. Malone(5. B).
 80, 525 Hutch rabbit dung, Richmond, Surrey, 1960. S. Scott.

Elsinoe phaseoli Jenkins

- 56, 102 Dwarf beans, Southern Rhodesia, 1954. A. Rothwell.

Emericellopsis minima Stolk

- 68, 333 *Trifolium pratense*, Rothamsted Exp. Sta., Herts., E. A. Peterson(25)
 —CMI, 1956.
 69, 015 Cooling tower slat (*Sequoia* sp.), Ballarat, Victoria, Australia, 1955.
 N. Walters(5054).

Emericellopsis salmosynnemata Grosklags & Swift.

- (Syn. *Cephalosporium salmosynnematum* Roberts)
 58, 330 (T) Contaminant of culture, Lansing, Mich., U. S. A. J. M. Roberts(MDH.
 3590A)—NRRL(2271)—CMI, 1954. Source of synnematin (U. S. Patent 2, 638, 018).
 (As *Cephalosporium salmosynnematum* (T)).

Emericellopsis terricola van Beyma

- 68, 332 Soil, Woburn Exp. Sta., England. E. A. Peterson(24)—CMI, 1956.

Endoconidiophora coerulescens Münch

- see *Ceratocystis coerulescens*.

Endomycopsis capsularis (Schönning) Dekker

- (Syn. *Endomyces capsulatus* Rewbr., Dodge & Ayers)
 62, 463 G. M. Francis, Roy. Coll. Science—CMI, 1956.

Endothia parasitica (Murr.) Anderson & Anderson

- 59, 815 Chestnut. CBS—G. Smith(BB. 213), 1954.

Entomophthora coronata (Cost.) Kevorkian

- (Syn. *Conidiobolus villosus* Martin)
 31, 278 Derx—CBS—CMI, 1948.
 68, 174 On *Peziza* sp. on cattle manure, Singapore, 1957. A. Thompson.
 70, 229 *Aphis fabae*, Rothamsted Exp. Sta., Herts. E. W. Buxton—CMI, 1957.

Ephelis oryzae Syd.

- 71, 432 Rice, Orissa, India, 1957. N. N. Mohanty.

Epicoccum nigrum Link

- (Syn. *E. purpurascens* Ehrenb. ex Wallr.)
 45, 171 Air, London, 1951. K. Maunsell.
 61, 336 *Urtica* sp., Goblin Coombe, Cleve, Somerset, 1955. A. H. S. Brown.
 68, 797 Citrus. L. D. Galloway—CMI, 1957.
 79, 494 1955. J. Nicot(Loire 2)—M. B. Schol-Schwarz.
 79, 495 Canvas, Holland, 1949. M. B. Schol-Schwarz(Lobog de Bruyn 2).
 79, 496 Air, U. S. A., 1956. Cooke(2040)—M. B. Schol-Schwarz.
 79, 497 Apple leaves, Holland, 1948. Mulder(1)—M. B. Schol-Schwarz.
 79, 498 Apple leaves, Holland, 1948. Mulder(21)—M. B. Schol-Schwarz.

Epicoccum purpurascens Ehrenb. ex Wallr.

- see *E. nigrum*.

Eremascus albus Eidam

- 41, 285 Mustard powder, Cambridge, 1950. F. T. Brooks.

Eremothecium ashbyi Guill.

14, 783 (T) Cotton bolls, Berber, Sudan. R. E. Massey—CMI—Guilliermond—
CBS—G. R. Bisby—NCTC(7041), 1945.

31, 269 W. J. Robbins, N. Y. Botanic Gdn—CMI, 1948.

Exobasidium vexans Mass.

51, 593 Tea, Ceylon. CBS—CMI, 1953.

51, 594 Tea. Boger—CBS—CMI, 1953.

Exosporina fawcettii

— see *Hendersonula toruloidea*

Fomes annosus (Fr.) Cooke

68, 421 Scots pine, Alice Holt Forest, Wrecclesham, Surrey. S. Batko—CMI,
1957.

68, 762 Blotting paper near *Abies procera* seeds, Seed Testing Lab., Forestry
Commission. S. Batko—CMI, 1957.

Fusariella bizzozzeriana (Sacc.) Hughes

55, 526 Débris of stone pit, near Tournus, France, 1952. J. Nicot (Mycothèque,
Paris 291).

67, 732 Soil, Sahara, 1956. J. Nicot.

Fusariella obstipa (Poll.) Hughes

55, 285 Sand, Hamada du Guir, nr. Beni-Abbès, Algeria, 1952. J. Nicot
(Mycothèque, Paris 292).

Fusarium annulatum Bugnicourt

55, 919 (A) Indo-China. F. Bugnicourt.

Fusarium avenaceum (Fr.) Sacc.

47, 186 Seed oat, Northern Ireland, 1950. J. P. Malone(127).

49, 894 Seed of *Vicia sativa*, Kenya, 1952. R. M. Nattrass(1772). (=W. L.
Gordon 3305).

49, 895 Seed of *Dactylis glomerata*, Kenya, 1952. R. M. Nattrass(1773). (=
W. L. Gordon 3306).

68, 113 Oat grain, Scotland. M. Noble—CMI, 1957.

Fusarium bulbigenum Cooke & Massee var. *lycopersici* (Brushl) Wollenw.

45, 617 CBS—P. H. Williams—CMI, 1951.

Fusarium chlamydosporum Wollenw & Reinking

76, 547 Soil, India, 1958. R. Y. Roy. (= W. L. Gordon 4693).

Fusarium coeruleum (Lib.) Sacc.

44, 742 A. R. Wilson(DR. 59)—P. W. Brian(35)—CMI, 1951.

Fusarium compactum (Wollenw.) Gordon

61, 306 Wheat, Nagpur, India, 1955. R. P. Asthana (= W. L. Gordon 4032).

69, 257 Soil, Iraq. M. Tolba(13)—CMI, 1957.

Fusarium culmorum (W. G. Smith) Sacc.

19, 986 Margarine, Boxmoore, Herts., 1947. F. D. Armitage.

35, 099 Soil, Ampthill Forest Nursery, Beds., 1949. J. H. Warcup(E. 8).

59, 448 Hay (toxic to heifers), Wolverhampton, 1952. P. K. C. Austwick
(V. 126/1).

63, 123 Wood pulp, Slough, Bucks., 1956. J. Payne (= W. L. Gordon 4121).

71, 578 Soil, Taita Exp. Sta., New Zealand, 1956. R. H. Thornton(S. B. 309).

Fusarium decemcellulare Brick

— see *Calonectria rigidiuscula*.

Fusarium dimerum Penz.

- 42, 796 Banana root, Portland, Jamaica, 1950. J. Rishbeth.
 49, 790 Soil, Dacca, Pakistan. Q. A. Ahmed(61)—CMI, 1952.
 76, 115 Soil, Karachi, Pakistan, 1958. M. S. Quraishi.

Fusarium equiseti (Corda) Sacc.

- 35, 100 Soil, Amphill Forest Nursery, Beds., 1949. J. H. Warcup(E.9).
 42, 799 Banana rhizome, St. Catherine, Jamaica, 1950. J. Rishbeth.
 49, 103 Musa sp., fruit rot, Kenya, 1951. R. M. Nattrass(1357); = W. L. Gordon 3182.
 49, 354 Citrus roots, Kenya, 1952. R. M. Nattrass(1706); = W. L. Gordon 3290.
 49, 525 Seed of Chloris gayana, Kenya, 1952. R. M. Nattrass(1743); = W. L. Gordon 3297.
 49, 888 Seed of Hordeum vulgare, Kenya, 1952. R. M. Nattrass(1766); = W. L. Gordon 3299.
 49, 889 Seed of Ornithopus sativus, Kenya, 1952. R. M. Nattrass(1767); = W. L. Gordon 3300.
 49, 890 Cynodon dactylon, Kenya, 1952. R. M. Nattrass(1768); = W. L. Gordon 3301.
 49, 893 Seed of Bothriochloa insculpta, Kenya, 1952. R. M. Nattrass(1771); = W. L. Gordon 3304.
 49, 898 Roots of Chrysanthemum cinerariifolium, Kenya, 1952. R. M. Nattrass(1776); = W. L. Gordon 3309.
 50, 531 Maize, male flowers, Malaya, 1952. A. Johnston(732); = W. L. Gordon 3378.
 59, 617 Cotton seedlings, Abbassia, Egypt, 1954. A. H. Montasiz; = W. L. Gordon 3897.

Fusarium graminearum Schwabe

- 49, 105 Triticum vulgare, Kenya, 1951. R. M. Nattrass(1662); = W. L. Gordon 3184. A mutant strain.

Fusarium heterosporum Nees ex Fr.

- 49, 106 Cenchrus ciliaris, Kenya, 1951. R. M. Nattrass(1710); = W. L. Gordon 3185.

Fusarium javanicum Koorders

- 29, 817 M. S. Lacey—CMI, 1948. Produces javanicin.

Fusarium lateritium Nees ex Fr.

- 49, 104 Albizzia sp., Kenya, 1951. R. M. Nattrass(1438); = W. L. Gordon 3183.
 49, 523 Seed of Lupinus sp., Kenya, 1952. R. M. Nattrass(1741); = W. L. Gordon 3295.
 49, 897 Flower of Chrysanthemum cinerariifolium, Kenya, 1952. R. M. Nattrass(1775); = W. L. Gordon 3308.

Fusarium lateritium var. *longum* Wollenw.

- 52, 048 Coffee, dieback, Tanganyika, 1953. G. B. Wallace(68/53); = W. L. Gordon 3500.
 53, 606 Coffee, assoc. with 'scaly bark', Tanganyika, 1953. G. B. Wallace. Storey's form A1.
 62, 693 Coffee, bark and wood, Nyasaland, 1956. D. C. M. Corbett(1288). (= W. L. Gordon 4098).
 62, 694 Coffee longum Wollenw., bark and wood, Nyasaland, 1956. D. C. M. Corbett(1289). (= W. L. Gordon 4099).
 63, 522 Coffee, Nyasaland, 1956. D. C. M. Corbett(1310). Storey's form A1. (= W. L. Gordon 4145).

Fusarium lini Bolley

- 38, 062 Flax seed, Wales, 1943. A. E. Muskett(37).

- 38,063 Flax, Canada, 1940. A. E. Muskett(38).
 38,064 Flax, Canada, 1940. A. E. Muskett(39).

Fusarium merismoides Corda

- 61,668(a) Cotton river-water filters, Barking, Essex, 1955. W. C. Dewey.

Fusarium moniliforme var. *anthophilum* (A. Braun) Wollenw.

- 45,499 Copra, Trinidad. A. C. Thaysen—CMI, 1951; = W. L. Gordon 3080.

Fusarium nivale (Fr.) Cés.

- see *Calonectria nivalis*.

Fusarium oxysporum Schlecht. ex Fr.

- 35,097 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup(B.10).
 42,801 Soil, banana plantation, Bodles, St. Catherine, Jamaica, 1950. J. Rishbeth(6).
 49,194 *Passiflora edulis*, Kenya, 1951. R. M. Nattrass(1349). = W. L. Gordon 3190.
 49,524 Roots of *Lupinus* sp., Kenya, 1952. R. M. Nattrass(1742); = W. L. Gordon 3296.
 49,932 Hops, canker, Tasmania, 1952. G. C. Wade(63).
 52,659 *Vicia faba* root, Mandria, Cyprus, 1953. R. A. Altson(Fm).
 52,660 *Vicia faba* root, Chiflikouthia, Cyprus, 1953. R. A. Altson(Fg).
 52,985 *Vicia faba*, Chiflikouthia, Cyprus, 1953. R. A. Altson(Fc); = W. L. Gordon 3560.
 52,986 *Vicia faba*, Chiflikouthia, Cyprus, 1953. R. A. Altson(Fb); = W. L. Gordon 3559.
 52,989 *Vicia faba*, Mandria, Cyprus, 1953. R. A. Altson(Fn); = W. L. Gordon 3562.
 52,991 *Vicia faba*, Mandria, Cyprus, 1953. R. A. Altson(Fo); = W. L. Gordon 3563.
 59,449 Goose egg membrane, Devon, 1952. P. K. C. Austwick(V.105/2).
 68,413 *Narcissus pseudonarcissus*, S. Africa. V. A. Wager(128)—CMI, 1957.
 68,681 *Gossypium barbarens*, Sudan. S. A. J. Tarr—CMI, 1956.
 71,584 Soil, Taita Exp. Sta., New Zealand, 1956. R. H. Thornton(SB.315).

Fusarium oxysporum f. *cubense* (E. F. Smith) Snyder & Hansen

- 48,841 *Musa* sp., Kenya, 1952. R. M. Nattrass(1705).
 50,182 Banana, Kenya, 1952. R. M. Nattrass(1799).
 74,957 Banana (Panama disease), Jamaica, 1958. M. Neita.

Fusarium oxysporum f. *dianthi* (Prill. & Delacr.) Snyder & Hansen

- 42,051 Carnation rot, Tanganyika, 1950. G. B. Wallace.

Fusarium oxysporum f. *gladioli* (Massey) Snyder & Hansen

- 62,567 *Gladiolus* sp., Kenya, 1956. R. M. Nattrass(1972). (= W. L. Gordon 4094).

Fusarium oxysporum f. *lycopersici* (Sacc.) Snyder & Hansen

- 68,357 Tomato from Guernsey, 1952. P. H. Williams.

Fusarium oxysporum var. *redolens* (Wollenw.) Gordon

- 52,987 *Vicia faba*, Mandria, Cyprus, 1953. R. A. Altson(F1); = W. L. Gordon 3561.
 58,926 Man, finger-nail bed, London, 1954. C. Warren.

Fusarium roseum Link

- 61,377 Canvas tent, India. QM(38.g)—CMI, 1955.

Fusarium sambucinum Fuckel

- 44,918 Soil, Amphthill Forest Nursery, Beds., 1950. J. H. Warcup(4. S. 2).

- 59,450 Air sac of turkey, 1953. P.K.C. Austwick(V.570).
 49,896 Seed of *Melinis minute-flora*, Kenya, 1952. R.M. Nattrass(1774).
 = W.L. Gordon 3307.
- Fusarium scirpi* Lamb. & Fautr.
 45,490 Pumpkin root (wilt), Nyanyadzi, Southern Rhodesia. J. Broadfoot
 (9285)—CMI, 1951; = W.L. Gordon 3078.
- Fusarium scirpi* var. *acuminatum* (Ellis & Everh.) Wollenw.
 35,098 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup(B.79).
- Fusarium scirpi* var. *compactum* Wollenw.
 52,129 Soil, Sudan. M.A. Nour—CMI, 1953. (= W.L. Gordon 3496).
- Fusarium semitectum* Berk. & Rav.
 49,355 *Chrysanthemum cinerariifolium*, Kenya, 1952. R.M. Nattrass(1718);
 (= W.L. Gordon 3194).
 49,690 Sorghum seed, Tanganyika, 1952. J.S. Hemingway(K.2); = W.L.
 Gordon 3365.
 49,892 Seed of *Hibiscus cannabinus*, Kenya, 1952. R.M. Nattrass(1770);
 = W.L. Gordon 3303.
 69,256 Soil, Iraq. M.K. Tolba(12)—CMI, 1957.
 76,112 Soil, Karachi, Pakistan, 1958. M.S. Quraishi.
- Fusarium solani* (Mart.) Sacc.
 42,797 Banana root, St. Catherine, Jamaica, 1950. J. Rishbeth(2).
 47,163 Hevea rubber, tapping panel, Malaya, 1951. R. Hilton(R.R.I.323).
 50,557 Carica papaya fruit, Malaya, 1952. A. Johnston; = W.L. Gordon 3380.
 58,668 Y. van Koot—CBS—CMI, 1954.
 61,324 A capsid, Tafo, Ghana, 1955. G. Usher(151/6/1); = W.L. Gordon
 4057).
 61,674 Dacca, Pakistan, 1955. Q.A. Ahmed. (= W.L. Gordon 4056).
 68,412 Hyacinth, S. Africa. V.A. Wager(129)—CMI, 1957.
 72,046 Pawpaw roots, Magara, Tanganyika, 1957. A. Riley(325). (= W.L.
 Gordon 4421).
 74,579(b) Musa sp., corm, Kew, 1958. (= W.L. Gordon 4700).
- Fusarium sporotrichioides* Sherbakoff
 80,116 Air, Pakistan, 1960. M.S. Quraishi.
- Fusarium trichothecioides* Wollenw.
 38,153 Potatoes, Edinburgh, Scotland. Boyd—W.L. Gordon(2699)—CMI, 1949.
- Fusarium vasinfectum* Atk.
 43,528 CBS—W.L. Gordon(120), 1932.
 59,615 Cotton seedlings, Abbassia, Egypt, 1954. A.H. Montasiz; (= W.L.
 Gordon 3896).
 61,516 Cotton seedling, Egypt, 1955. A. Fikry(1).
 61,517 Ditto. A. Fikry(2).
- Fusicoccum castaneum* (Sacc.) Sacc.
 56,683 Sweet chestnut, Bromshill Nursery, Hants., 1954. S. Batko.
- Ganoderma lucidum* (Leyss ex Fr.) Karst.
 53,179 *Elaeis guineensis*, Nigeria, 1948. R.A. Bull(WAIFOR 9).
- Gelasinospora autosteiira* Alexop. & Sun.
 45,324 (T) Strain A. Leaves of *Tillandsia usneoides*, Natchez, Mississippi,
 U.S.A., 1949. C.J. Alexopoulos. m.45,325.
 45,325 (T) Ditto, Strain B. m.45,324.

Gelasinospora cerealis Dowding

- 8, 991 (A) Wheat or oat crowns, Manitoba, Canada. E. S. Dowding—CMI, 1946.
 47, 701 Soil in meadow, Bedford, 1951. J. H. Warcup(E. 143).
 54, 767 Soil, England, 1953. G. W. F. Sewell—A. H. S. Brown.
 76, 253(a) Decayed Western red cedar timber, Dolgelly, Wales, 1959. C. A. Savory.
 76, 939 (A) Roots of cereals, Canada, 1952. E. S. Dowding—ATCC(11344).

Gelasinospora retispora Cain

- 44, 145 (T) Beta vulgaris var. cicla seeds, Enkhuisen, Holland. J. W. Groves—R. F. Cain(12105).
 51, 437 Soil, Durham, 1952. J. A. Richardson(P. II. A).
 54, 766 Soil, England, 1953. G. W. F. Sewell—A. H. S. Brown.

Gelasinospora tetrasperma Dowding

- 50, 358 (A) Parsnip seed, British Colombia, E. Silver Keeping—CMI, 1952.

Geotrichum candidum Link

- (Syn. *Oospora lactis* (Fresen.) Sacc.)
 23, 312 Lactose, London, 1932. G. Smith(BB. 130)—CMI, 1948.
 39, 573 Apple, Northern Ireland, 1950. C. H. Leach—A. E. Muskett.
 42, 074 "Radiomalt", G. B., 1950. M. P. English.
 45, 619 Faeces of diseased honey bee, Strawberry Hill, Middlesex, 1951. H. A. Dade.
 46, 237 Cucumber fruit, Njala, Sierra Leone, 1951. F. C. Deighton(M. 3883).
 50, 119 Baker's yeast, Epsom, Surrey, 1952. P. A. Dixon.
 54, 785 *Elaeis guineensis*, Belgian Congo, 1953.

Geotrichum candidum var. *citri-aurantii* (Ferraris) R. Cif. & F. Cif.

- (Syn. *Oospora citri-aurantii* (Ferraris) Sacc. & Syd.)
 21, 190 Orange fruit, Mazoe, Southern Rhodesia. G. R. Bates—NCTC(3500), 1932.
 77, 074 Grapefruit, S. Africa, 1959. R. A. Christ.

Gibberella cyanogena (Desm.) Sacc.

- 49, 933 Hops, "growing off", Tasmania, 1952. G. C. Wade(65).

Gibberella fujikuroi (Sawada) Wollenw.

- (Syn. *Fusarium moniliforme* Sheld.)
 35, 108 Chona—CBS—CMI, 1949.
 45, 545 India. M. H. Downing(QM. 427)—CMI, 1951. Actively attacks auto-claved wool.
 46, 872 Sorghum roots, Israel, 1951. Minz.
 49, 102 *Saccharum officinarum*, Kenya, 1951. R. M. Nattrass(1356); = W. L. Gordon(3181).
 51, 111 Soil, Giza, Egypt, 1952. K. Naguib.
 58, 289 Rice, Japan. Miyake—CBS—P. W. Brian(BRL. 914)—CMI, 1954. Produces gibberellic acid.
 58, 290 Rice, Japan. Sawada—CBS—P. W. Brian(BRL. 917)—CMI, 1954. Produces gibberellic acid.
 58, 291 Rice, India. T. S. Ramakrishnan (Masutera strain)—P. W. Brian(BRL. 1001)—CMI, 1954. Produces gibberellic acid.
 58, 292 Rice, India. T. S. Ramakrishnan (Coimbatore strain)—P. W. Brian(BRL. 1004)—CMI, 1954. Produces gibberellic acid.
 58, 293 Rice, Italy. E. Baldacci—P. W. Brian(BRL. 1135)—CMI, 1954. Produces gibberellic acid.
 58, 294 Rice, Italy. G. Gobi—P. W. Brian(BRL. 1139)—CMI, 1954. Produces gibberellic acid.
 58, 519 Maize cobs, Northern Rhodesia, 1954. E. A. Riley(409); = W. L. Gordon 3890.

- 61, 274 Raw cotton, Alabama, U.S.A., 1936. H. Humlfed—USDA(1004.1)—QM(1224). (= NRRL. 2374, ATCC.10052). (U.S.A. Specification MIL-E-5272A.) Test strain for mould-proofing.
- 61, 305 Wheat, Nagpur, India, 1955. R.P. Asthana (= W.L. Gordon 4031).
- 68, 200 Rice, Sierra Leone. C.T. Pyne(M. 6508)—CMI, 1956.
- 68, 954 *Gladiolus* sp., N. Rhodesia. A. Angus(37a)—CMI, 1957.
- 69, 246 Soil, Iraq. M.K. Tolba(1)—CMI, 1957.
- 72, 023 Maize seed, Ghana, 1957. L. Piening. (= W.L. Gordon 4420).
- 72, 324 Tobacco seedlings (germinated on filter paper), Salisbury, S'n Rhodesia, 1957. J.S. Cole (= W.L. Gordon 4422).
- Gibberella fujikuroi* (Sawada) Wollenw. var. *subglutinans* Edwards
75, 000 Sugarcane, Banaras, India, 1958. C. Lal(CB. 2).
- Gibberella zeae* (Schwein.) Petch
43, 501 Seed oats, Belfast, Northern Ireland, 1950. J.P. Malone.
58, 518 Maize cob, Northern Rhodesia, 1954. E.A. Riley(401); = W.L. Gordon 3889.
61, 392 Maize, Kenya, 1955. A.W.S. Duff. (= W.L. Gordon 4046).
61, 417(a) Coffee, Nyasaland, 1955. D.C.M. Corbett(CD. 1/D2).
62, 716 Wheat, Lusaka, Northern Rhodesia, 1956. B. Mounter.
69, 695 Wheat, Western Australia, 1957. W.P. Cass-Smith.
- Glenospora* sp.
35, 103 Aborted calf foetus, Kent, 1949. G. Kershaw(133).
- Gliocladium album* (Preuss) Petch
40, 084 ?*Physarum* sp. on a rotting log, Highpark, Stanmer, Sussex, 1950. P.K.C. Austwick(F. 48).
45, 000 Contaminant of culture from Canada, 1950. G.R. Bisby.
- Gliocladium catenulatum* Gilman & Abbott
40, 022 K.B. Raper(NRRL. 1091)—G. Smith, 1949.
54, 857 Soil, Brisbane, Australia, 1953. R.F. Langdon.
57, 402(a) Skin of Siamese cat, Berkhamsted, 1953. P.K.C. Austwick(V. 505).
68, 340 Iris bulbs (var. Wedgewood), Guernsey, C.I. D.J. Harrison(A)—CMI, 1956.
68, 997 Groundnut, India. M.S. Kang(99)—CMI, 1957.
- Gliocladium deliquescens* Sopp
40, 023 K.B. Raper(NRRL. 1086)—G. Smith, 1949.
49, 797 Soil, Dacca, Pakistan. Q.A. Ahmed(254)—CMI, 1952.
67, 988 Stomach contents of aborted bovine foetus, Weybridge, 1956. P.K.C. Austwick(A. 207/1).
69, 036 *Eucalyptus regnans*, Tarra Valley Park, Australia, 1956. N. Walters (6216B).
- Gliocladium fimbriatum* Gilman & Abbott
39, 919 Soil, Amptill Forest Nursery, Beds., 1950. J.E. Brind(4. ASF. 1).
49, 791 Soil, Dacca, Pakistan. Q.A. Ahmed(66)—CMI, 1952.
49, 800 Soil, Dacca, Pakistan. Q.A. Ahmed(268)—CMI, 1952.
77, 987 Fallen leaves of *Artocarpus heterophyllus*, Colombo, Ceylon, 1959. B.L.T. de Silva(No. 113).
- Gliocladium roseum* Bain.
40, 024 Soil, U.S.A., 1930. K.B. Raper(NRRL. 1085)—G. Smith, 1949.
43, 608 Seed oats, Belfast, N. Ireland, 1950. J.P. Malone.
45, 493 Raspberry roots, Melsetter, Southern Rhodesia, 1951. J. Broadfoot (Herb. S. Rhod. 9795).
48, 681 Cotton stalks, Arizona, U.S.A., 1952. J.G. Brown(1).
59, 284 *Pinus peuce* seeds, Farnham, Surrey, 1955. S. Batko.

- 59, 285(a) *Robinia pseudo-acacia*, Great Britain, 1955. S. Batko(F. 259).
 69, 027 Cooling tower slats (*Sequoia* sp.), Ballarat, Victoria, Australia, 1956. N. Walters(5960B).
 69, 697 Apple, W. Australia. W. P. Cass-Smith—CMI, 1957.
 75, 596 *Urtica* sp., A. S. Yadav.
- Gliocladium vermoeseni* (Biourge) Thom
 40, 231 H. S. Fawcett—NRRL(1752)—G. Smith—CMI, 1950.
 56, 246(a) Palm (*Pritchardia filifera*) leaves and apical bud, Egypt, 1954. Abd El Kader and M. el Zarka.
- Gliomastix convoluta* (Harz) Mason
 43, 610 Seed oats, Belfast, 1948. J. P. Malone(19A/47).
 45, 549 A shoe, Bougainville, Solomon Is. M. H. Downing(QM. 4c)—CMI, 1954.
 55, 317 Soil, Cambridge, 1953. H. T. Tribe(25B).
 56, 093(a) Dead twig of *Bougainvillea spectabilis* (orange var.), Njala, Sierra Leone, 1954. F. C. Deighton(M. 5615A).
- Gliomastix convoluta* var. *felina* (Marchal) Mason
 52, 640 Soil, Chobham Common, Surrey, 1953. P. Bull—M. P. Topping(537).
 63, 331 Dust, London, 1956. R. R. Davies.
- Gliomastix protea* (Sacc.) Verona & Castella
 31, 229(a) Bamboo stick, Trawscoed, Aberystwyth, 1948. S. J. Hughes & D. K. Jones.
- Gloeosporium musarum* Cooke & Massee
 52, 264 *Musa sapienta*, Matuga, Kenya, 1953. R. M. Nattrass(1850).
- Glomerella cingulata* (Stonem.) Spauld. & Schrenk.
 48, 160 *Matthiola incana*, Brisbane, Australia, 1951. R. F. Langdon (Univ. of Queensland 650).
 58, 716 *Elaeis guineensis*, Yaligamba, Belgian Congo, 1954. W. G. Kovachich (HCB. 879).
 62, 076 Grapefruit, England, 1955. R. K. S. Wood(G. 2).
 63, 595 *Aglonema simplex*, India, 1956. S. N. Das Gupta (D/C. VI).
 63, 598 *Peperomia magnolifolia*, India, 1956. S. N. Das Gupta(D/C/II).
 68, 838 *Capsicum annum*, Andra Pradesh, India. P. Govinda Rao(1)—CMI, 1957.
 71, 662 *Ceiba pentandra* assoc. with stem canker, Fed. Exp. Sta., Serdang, Malaya, 1957. A. Johnston(C(NS)164).
 71, 666 *Capsicum annum* v. *grossum* (assoc. with fruit rot), Cameron Highlands Malaya, 1957. A. Johnston(C(NS)170).
 72, 112 *Hibiscus cannabinus*, S'n Rhodesia, 1957 J. O. Whiteside(15000).
 80, 022 *Coffea arabica*, Abidjan, French W. Africa. J. von Arx—C. L. A. Leakey—CMI, 1960.
 80, 026 *Coffea* sp., Colombia. J. von Arx—C. L. A. Leakey—CMI, 1960.
- Glomerella gossypii* Edgerton
 61, 300 *Allium cepa* leaves, nr. Zaria, Nigeria, 1955. R. E. Wyatt.
- Glomerella tucumanensis* (Speg.) Arx & Müller
 80, 024 *Zea mais*. J. von Arx—C. L. A. Leakey—CMI, 1960.
- Gnomonia leptostyla* (Fr.) Cés. & de Not.
 77, 378 *Juglans regia*, Clermont-Ferrand, Puy de Dome, France. J. Grente (829)—CMI, 1959.
- Gongronella butleri* (Lendner) Peyronel & Dal Vesco
 (Syn. *Absidia butleri* Lendner, *Mucor vesiculosus* G. Smith, *Gongronella urceolifera* Ribaldi)
 38, 498 Soil, Malaya. J. H. Warcup(E. 5a). m. 38, 499.

- 38, 499 Peat soil, Hauraki Plains, New Zealand, 1945. J. H. Warcup(E. 5b).
m. 38, 498.
- 60, 223 Soil, Dehra Dun, India, 1956. B. K. Bakshi(22).
- 61, 493 Coconut, Ghana, 1955. R. I. Leather.
- 71, 628 Garden soil, Harrow, Middlesex. G. Smith(BB321)—CMI, 1958, (as
Mucor vesiculosus G. Smith(T)).
- Gonytrichum macrocladum* (Sacc.) Hughes
60, 230 Soil, Dehra Dun, India, 1955. B. K. Bakshi(40).
- Graphium cuneiferum* (Berk. & Br.) Mason & M. B. Ellis
34, 001(e) Cabbage stalk, Stoke Poges, Bucks., 1949. M. F. Madelin.
56, 828 Seed oats, Northern Ireland, 1954. J. P. Malone(17/A).
- Griphosphaeria corticola* (Fuckel) v. Höhnelt
68, 246 Rose shoots, Ely, Cambs. Plant Protection Ltd.—CMI, 1957.
79, 706(b) *Rosa canina*, Birdsall, Malton, Yorks., 1959. W. G. Bramley
(c/60/7).
- Guignardia citricarpa* Kiely
(Syn. *Phoma citricarpa* McAlp.)
70, 028 Japan. I. F. O. (5287)—CMI, 1957.
77, 080 Orange, E. Transvaal, S. Africa, 1959. R. A. Christ(14).
79, 629 *Saccharum officinarum*, Jamaica, 1960. H. J. Hudson.
- Gymnoascus brevisetosus* Kuehn
76, 603 (A) Soil, Lakenheath Warren, Suffolk. J. H. Warcup—H. H. Kuehn—
CMI, 1959.
- Gymnoascus reesii* Barenetsky
76, 602 Squirrel dung, Cincinnati, Ohio, U. S. A., 1958. H. H. Kuehn.
- Gymnoascus subumbrinus* A. L. Smith & Ramsb.
41, 112 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup(B. 30).
- Hansfordia grisella* (Sacc.) Hughes
(Syn. *Botrytis grisella* Sacc.)
20, 743 Air, Auckland, New Zealand, 1947. Vernon(A. 21. 2).
- Helicodendron articulatum* Glen-Bott
48, 341 (T) Beech leaf, Waggoners Wells, Surrey, 1949. J. I. Glen-Bott.
- Helicodendron giganteum* Glen-Bott
44, 159 (T) Decaying oak & Beech leaves, Windermere, Westmorland, 1949.
J. I. Glen-Bott—C. T. Ingold—CMI, 1950.
52, 472 Decaying birch leaf in drainage furrow, nr. Stockholm, Sweden, 1950.
A. L. van Beverwijk.
- Helicodendron multcatenulatum* van Beverwijk
49, 343 (T) Grass leaf in marsh, near Baarn, Holland, 1949. A. L. van
Beverwijk.
- Helicodendron triglitzense* (Jaap) Linder
38, 968 Submerged leaves, Chislehurst, Kent. J. I. Glen-Bott—C. T. Ingold.
52, 469 Decaying birch leaf in pond, Eerde, nr. Ommen, Holland, 1948.
A. L. van Beverwijk.
- Helicostylum elegans* Corda
60, 440 Woodlice, Cambridge, 1955. J. N. Lythgoe—R. W. G. Dennis.
68, 075 Dead woodlice, Brecklands, Suffolk, 1954. J. N. Lythgoe.

Helicostylum glomeratum (van Tiegh. & Le Monn.) van Tiegh.
75,152 Dung, Hyderabad, India, 1958. A.Salam(36).

Helicostylum pyriforme Bain.

34,453 Fermented cacao from W.Africa, incubated at CMI, 1949. G.M. Waterhouse.

52,123 Soil, Sudan. M.A.Nour—CMI, 1953.

57,446(a) Insect larva, Njala, Sierra Leone, 1954. F.C.Deighton(M.6078A).

80,552 Sugarcane leaf sheath, Coimbatore, India. J.T.Rao—CMI, 1960.

Heliscus longibrachiatus Ingold

62,079 (A) Decaying leaves in stream, Ide Hill, nr.Sevenoaks, Kent, 1955.
C.T.Ingold.

Heliscus stellatus Ingold & Cox

62,078 (T) Decaying leaves in fresh water, Ide Hill, nr.Sevenoaks, Kent,
1955. C.T.Ingold.

Helminthosporium australiense Bugnicourt

53,994 (T) Rice, Australia. F.Bugnicourt(2)—CMI, 1953.

Helminthosporium bicolor Mitra

56,996 Banana, Tanganyika, 1954. G.B.Wallace(230/54).

73,102 Pennisetum clandestinum, Nambour, Brisbane, Australia, 1958.
J.H.Simmonds(N.1317).

Helminthosporium biforme Mason & Hughes

32,847 (A) Seed oats, N.Ireland, 1948. J.P.Malone.

Helminthosporium carbonum Ullstrup

58,713 *Elaeis guineensis*, Yaligamba, Belgian Congo, 1954. W.G.Kovachich
(HCB.853).

61,526 *Sarcophrynium* sp., Belgian Congo, 1955. W.G.Kovachich(1001).

79,898 *Chloris gayana*, Southern Rhodesia, 1959. W.E.Kerr.

Helminthosporium catenarium Drechsler

63,798 *Phleum pratense*, Scotland, 1956. M.Noble.

63,937 *Festuca pratensis*, Hellerup, Denmark, 1956. H.Andersen(856/55-57).

Helminthosporium cynodontis Marign.

45,769 *Cynodon transvaalensis*, Nairobi, Kenya, 1951. R.M.Nattrass(1561).

Helminthosporium dematioideum Bubák & Wroblenski

74,812 Rye grass, Silwood, Bucks, 1958. G.Scharif.

Helminthosporium geniculatum Tracy & Earle

— see *Curvularia geniculata*.

Helminthosporium halodes Drechsler.

48,842 Seed of *Pennisetum spicatum*, Southern Rhodesia, 1951. W.E.Kerr
(G.32).

71,926 Khartoum, Sudan. Omer Hassan Giha(H3)—CMI, 1958.

76,563 Soil, India, 1959. R.Y.Roy.

Helminthosporium halodes var. *elaeicola* Kovachich

52,930(a) (T) *Elaeis guineensis* leaves, Yaligamba & Elizabetha, Belgian
Congo, 1953. W.G.Kovachich.

55,304 (A) *Elaeis guineensis* leaves, Yaligamba & Elizabetha, Belgian Congo,
1953. W.G.Kovachich.

- Helminthosporium halodes* var. *tritici* Mitra
22, 971 Wheat roots (wilt), Sudan. S.A.J. Tarr—CMI, 1948.
- Helminthosporium hawaiiense* Bugnicourt
52, 822 (A) Linum, Hyderabad, India, 1953. Osmania Univ. (12).
52, 826 (A) Rice, Hyderabad, India, 1953. Osmania Univ. (16).
53, 993 (A) Rice, New Guinea. F. Bugnicourt(1)—CMI, 1953.
77, 207 Pakistan, 1959. M. S. Quraishi(2).
- Helminthosporium heveae* Petch
80, 137 Hevea brasiliensis, Araromi, Nigeria, 1960. J. H. Simons(S2).
- Helminthosporium portulacae* Rader
37, 710(i) Portulaca grandiflora, Canada, 1949. I. L. Conners.
- Helminthosporium rostratum* Drechs. l.
53, 251 Maize, Southern Rhodesia, 1953. W. E. Kerr(MR. 11, 676).
61, 304 Wheat, Nagpur, India, 1955. R. P. Asthana.
61, 867 Rice, Bengal, India, 1954. S. B. Chattopadhyay(H. 5).
61, 868 Ditto (H. 28).
- Helminthosporium siccans* Drechs. l.
63, 936(b) Lolium perenne, Hellerup, Denmark, 1956. H. Andersen(16/56-57).
- Helminthosporium sorghicola* Lef. & Sherw.
53, 252 Seed of Sorghum vulgare, Southern Rhodesia, 1953. W. E. Kerr(MR. 11, 675).
- Helminthosporium spiciferum* (Bain.) Nicot
— see Curvularia spicifera
- Helminthosporium torulosum* (Syd.) Ashby apud Mason
— see Deightonella torulosa
- Hemisporea stellata* Vuill.
— see Sporendonema sebi
- Hendersonina sacchari* Butl.
62, 555 Sugarcane, E. Pakistan, 1956. M. Ishaque.
- Hendersonula toruloidea* Nattrass
31, 449 Persian walnut, Visalia, Tulare Co., California, 1948. E. E. Wilson.
39, 473 Manihot utilisissima stems, Tamale, Ghana, 1949. S. J. Hughes.
49, 167 Morus alba, Punjab, Pakistan, 1952. A. Hahmid Khan(M. 472).
51, 975 Morus alba cankers, U. S. A. Hal Dill—A. L. van Beverwijk—CMI, 1953.
55, 277(a) Melia azederach, Punjab, Pakistan, 1952. A. H. Kahn(F. R. I. /M. 87).
- Heterocephalum aurantiacum* Thaxt.
62, 339 Soil, Belgian Congo, 1956. J. Meyer(34118).
- Heteropatella antirrhini* Budd. & Wakef.
77, 145 (A) Antirrhinum, England. E. M. Wakefield—CBS, 1927.
- Heterosporium terrestre* R. G. Atkinson
51, 380 (T) Soil, Ancaster, Ontario, Canada, 1952. R. G. Atkinson.
- Hormodendrum langeronii* Da Fonseca, Leao, & Penida
31, 277 (T) Man, ulcero-nodular mycosis, Brazil, 1927. Da Fonseca—NCTC (2893), 1927.

- Humicola grisea* Traaen
75, 664 (A) ?Soil, Norway. A.E. Traaen—CBS—CMI, 1959.
- Hymenula socia* Sacc.
— see *Nectria pityrodes* var. *saccharina*
- Hypocrea lenta* (Tode) Fries
49, 271 *Acer negundo*, Arlington, U.S.A., 1945. C.L. Shear (6016).
- Hypocrea spinulosa* Fuckel
(Syn. *Chromocrea spinulosa* (Fuckel) Petch ex Brooks & Math.)
39, 915 *Dactylis glomerata*, Cambridge, 1945. E.C. Ballard—D.G. Catcheside.
- Hypomyces aurantius* (Pers. ex Fr.) Tul.
27, 812 *Polystictus* sp., England. C.J. Hickman—CMI, 1948.
56, 560 *Polystictus versicolor*, Grantley Hall, Yorks., 1954. C.J. La Touche.
56, 561 *Polyporus betulinus*, Fountains Abbey, Yorks., 1954. C.J. La Touche.
- Hypomyces broomeanus* Tul.
71, 367 *Fomes annosus*, Gundale, Pickering, Yorks., 1957. W.G. Bramley (C/57/79).
- Hypomyces rosellus* (Alb. & Schw. ex Fr.) Tul.
60, 346(a) *Pinus*, wood & bark, Whippendell Wood, Herts., 1955. A.H.S. Brown.
- Hypomyces solani* Reinke & Berth.
— see *Nectria haematococca*.
- Idriella lunata* Nelson & Willhelm
67, 935 (T) Roots of *Fragaria chiloensis* v. *ananassae*, California, U.S.A., 1950. P.E. Nelson.
- Isaria cretacea* van Beyma
21, 166 Contaminant of yeast culture, Great Burgh. W.P.K. Findlay—NCTC (5187), 1937.
77, 369 Cacao beans, Kumasi, Ghana, 1958. D. Wheatley(H.S).
- Isaria farinosa* (Dicks.) Fr.
— see *Paecilomyces farinosus*
- Isaria felina* (DC) Fr.
54, 853 Dung (?of rat), Brisbane, Australia, 1953. R.F. Langdon.
- Itersonilia perplexans* Derx
62, 257 Parsnip, U.S.A. G. Sewell—CBS—CMI, 1956.
- Kabatiella microsticta* Bubák
14, 782 *Convallaria majalis*, England, 1946. G.R. Bisby.
- Keratinomyces ajelloi* Vanbreus.
80, 136 (A) Garden soil, Belgium. R. Vanbreuseghem—LSHTM(D. 874)—CMI, 1960.
- Kernia spirotricha* (Benjamin) Benjamin
60, 034 (T) Deer dung, San Gabriel Canyon, Cal., U.S.A., 1953. R.K. Benjamin(RSA. 116).
- Kickxella alabastrina* Coemans
73, 343 Mouse dung, Evey Canyon, nr. Claremont, Cal., 1955. R.K. Benjamin (RSA. 352).

- Lachnea cretea* (Cooke) Phill.
29, 660 H. Gwynne-Vaughan—CBS—CMI, 1948.
- Leptosphaeria coniothyrium* (Fuckel) Sacc.
52, 734 Soil, Northern Ireland, 1953. Q.A. Ahmed.
- Leptosphaeria heterospora* (De Not.) Niessl
68, 084 *Poa epilis*, Mount Shasta, California, U.S.A., 1947. W.B. Cooke (20477).
- Lilliputia rufula* (Berk. & Br.) Hughes
73, 837 Axis deer dung, San Francisco, U.S.A., 1958. S. Stribling.
- Lophotrichus ampullus* Benjamin
75, 818 Goat dung, Guam, Marian Is., 1959. S. Stribling.
- Loramycetes juncicola* Weston
48, 632 *Eleocharis* sp., G.B. C.T. Ingold—CMI, 1952.
- Loramycetes macrospora* Ingold & Chapman
50, 689 (T) Submerged *Equisetum*, Little Langdale Tarn, Westmorland, 1952.
B. Chapman—C.T. Ingold.
- Macrophomina phaseoli* (Maubl.) Ashby
52, 047 Tobacco leaves, Tanganyika. G.B. Wallace(65/52).
57, 865 Cotton seedling, Sudan, 1954. S.A.J. Tarr(J.T. 2211).
59, 801 *Carica papaya*, Mt. Makulu Res. Sta., Northern Rhodesia, 1954. F.C. Peacock(GCMM. 562).
67, 920 Melon, Esfahan, Esfahanak, Iran, 1955. S. Scharif.
79, 041(a) Sorghum, Kano, Nigeria, 1959. Oliver.
- Mammaria echinobotryoides* Cés.
76, 598 Clematis, Holland, 1943. H.C. Koning—CBS.
- Margarinomyces bubakii* Laxa
24, 000 (T) Margarine, Prague. Laxa—A.C. Thaysen—NCTC(3273), 1930.
- Martensiomycetes pterosporus* Meyer
60, 573 (T) Soil, Belgian Congo, 1955. J. Meyer(3863).
- Masoniella chartarum* (G. Smith) G. Smith
49, 909 (T) Wall-paper, London, 1950. K. Maunsell—G. Smith.
- Masoniella grisea* (G. Smith) G. Smith
49, 908 (T) Contaminant of culture, London, 1946. G. Smith.
68, 389(a) Surface of an old picture, Kew, 1957. A.B. Thomas.
- Massarina eburnea* (Tul.) Sacc.
76, 674 Beech, Ranmore Common, Surrey, 1959. C. Booth.
- Mauginiella scaetiae* Cavara
34, 813 Date palm spathe, Satt-el-Arab, Irak, 1949. R.P. Southby.
- Melanconis modonia* Tul.
80, 245 *Castanea sativa*, Mad Bess Wood, Ruislip, Middlesex, 1960. B.C. Sutton.
80, 246 Ditto.
- Melanomma callicarpum* (Sacc.) Berl.
68, 334 Wheat, Woburn Exp. Sta., England. E.A. Peterson(26)—CMI, 1956.

Melanopsamma pomiformis (Pers. ex Fr.) Sacc.

- 56, 393 Elm wood exposed by damage to bark, Fountains Abbey Woods, Yorks., 1954. C. Booth. Single ascospore isolation.

Melanospora damnosa (Sacc.) Lindau

- 74, 744 Potato plant stem, E. Pakistan, 1958. M. Ishaque.

Melanospora destruens Shear

- see *Sordaria destruens*.

Melanospora phaseoli Roll-Hansen

- 80, 104 (?T) *Phaseolus vulgaris*, Jeløy Østfold, Norway, 1944. F. Roll-Hansen(564/6).

Melanospora zamiae Corda

- 59, 592 Horse-bean pods, Egypt, 1953. M. A. Ragab(3).
62, 569(a) Sugarcane, India, 1956. M. N. Kamat.
68, 202 Husk and leaves of *Oryza sativa*, Sierra Leone. C. T. Pyne(M. 6510)—CMI, 1956.
77, 442(c) Pawpaw, Kaudabwe, Gwembe Valley, N'n Rhodesia, 1958. A. Angus (71. c).

Memnoniella echinata (Riv.) Galloway

- 15, 377 Decayed water-bag, S. Africa, 1947. A. L. James—CMI, 1946.
Strain used in S. Africa for research on cellulose decomposition.
16, 201 Cotton fabric, Calcutta, India, 1943. S. W. Basu(73).
17, 854 Tent canvas, Auckland, New Zealand. R. M. Brien(N. Z. 17)—CMI, 1944.
24, 003 Canvas, Australia, 1944—NCTC(6856).
24, 287 Australia(No. 2)—A. E. Muskett—CMI, 1948. Strain used in Australia for tests of cellulose decomposition.
42, 309 Cordage, Kanpur, India, 1945. Kanpur(D. 135).
45, 547 Tent canvas, Bougainville, Solomon Is. M. H. Downing(QM. 1. c)—CMI, 1951. Very actively cellulolytic.
48, 570 *Tetragonia expansa*, Southern Rhodesia, 1951. W. E. Kerr(M. 38).
61, 273 Canvas, New Guinea, 1944. G. C. Wade—WADC(37)—QM(1225). (= NRRL. 2373). (U. S. A. Specification MIL-E-5272A.) Test strain for mould-proofing.
75, 133 Dung Hyderabad, India, 1958. A. Salam.

Meria laricis Vuill.

- 61, 035 *Larix leptolepis*, Newcastleton Forest, Roxburghshire, 1955. S. Batko.
77, 045 European larch, Bareagle, Scotland, 1955. P. Biggs—J. G. Manners.
77, 046 Japanese larch, Coed-y-Brenin, Wales, 1955. P. Biggs—J. G. Manners.
77, 047 Hybrid larch, Bareagle, Scotland, 1955. P. Biggs—J. G. Manners.

Merulius lacrymans (Wulf.) Fr.

- 79, 125 FPRL(12C)—CMI, 1959. For study of clamp connections.

Mesobotrys simplex Gilman & Abbott

- 45, 002 (T) Soil, Louisiana, U.S.A. Abbott—CBS—CMI, 1951.

Metarrhizium anisopliae (Metsch.) Sorok.

- 47, 038 *Tomaspis saccharina*, Venezuela, 1951. R. E. Pontis. Short-spored form.
57, 692 Lepidopterous larva, Njala, Sierra Leone, 1954. F. C. Deighton (M. 6134).
63, 336 *Diatraea* sp., Venezuela. P. Guagliumi—W. J. Hall, 1956.

- Metarrhizium brunneum* Petch
14, 746 (A) Wireworms, Forest Grove, Oregon, U.S.A. L.P. Rockwood—
K. B. Raper—W. L. White(QM. 191)—CMI, 1947.
- Metarrhizium glutinosum* Pope
— see *Myrothecium verrucaria*.
- Microascus cirrosus* Curzi
68, 042 Skin scraping of dog, Upton-on-Severn, Gloucestershire. P.K.C.
Austwick(V. 940/2)—CMI, 1956.
68, 043 Stomach contents of aborted bovine foetus, Weybridge. P.K.C.
Austwick(A. 376)—CMI, 1956.
75, 819 Goat dung, Guam, Marian Is., 1958. S. Stribling.
- Microascus intermedius* Emmons & Dodge
50, 108 CBS—C. G. C. Chesters—CMI, 1952.
- Microascus longirostris* Zukal
36, 478 Curzi—CBS—CMI, 1949.
- Microascus trigonosporus* Emmons & Dodge
50, 107 CBS—C. G. C. Chesters—CMI, 1952.
- Micromonospora italica* Ceriotti
79, 590 Las. Ric. Farmitalica, Milan, Italy—CMI, 1959.
- Monacrosporium oxysporum* Sacc. & March
78, 728 Cellophane film buried in soil, Cambridge, 1959. J. Daniels.
- Monascus purpureus* Went
62, 570 Wheat seed, England, 1956. P. Karijansoon.
- Monascus ruber* van Tiegh.
57, 972 CBS—CMI, 1954.
- Monochaetia saccardoi* (Speg.) Sacc.
56, 698 Oak, Bardney Forest, Lincs., 1954. S. Batko.
- Monochaetia unicolornis* (Cooke & Ellis) Sacc.
52, 255 Cupressus forbesii, Elburgen, Kenya, 1949. D. Rudd Jones(PRL.
1260; RM. 23). Strain B.
- Monocillium indicum* Saksena
62, 202 (A) Soil, India, 1956. S. B. Saksena(GC. 968).
- Mortierella alpina* Peyronel
38, 598 CBS—CMI, 1949.
- Mortierella hygrophila* Linnem.
45, 945 Soil, Ampthill Forest Nursery, Beds., 1950. J. E. Brind(A.III.C.1).
- Mortierella hygrophila* var. *minuta* Linnem.
46, 343 Soil, Ampthill Forest Nursery, Beds., 1950. J. E. Brind(6.ASF.1).
- Mortierella pusilla* Oud.
75, 332 Wood of Picea glauca, Willow River, British Columbia, 1957. S. J.
Hughes(DAOM. 57162).
- Mortierella stylospora* Dixon-Stewart
38, 599 McLennan—CBS—CMI, 1949. (Spores somewhat smaller than type).

Mucor abundans Povah.

42, 745(a) Marzipan, G. B. 1950. S. J. Duly.

Mucor bacilliformis Hesseltine

55, 297 (T) Soil, Hayward, Wisconsin, U. S. A., 1940. C. W. Hesseltine—NRRL (2346). (Homothallic).

Mucor circinelloides van Tiegh.

31, 800 (?) Salpiglossis roots, Southern Rhodesia. G. R. Bates(7316B)—CMI, 1948.

55, 452 Vicia faba epicotyl, Karavas, Kyrenia, Cyprus, 1954. R. A. Altson.

Mucor fragilis Bain.

41, 071 Contaminant of culture, CMI, Kew, 1950. H. A. Dade.

78, 295 Contaminant in culture of springtails (Collembola), Imperial College of Science & Technology, London, 1959. H. E. Goto.

Mucor globosus Fischer

31, 799 (?) Salpiglossis roots, Southern Rhodesia. G. R. Bates(7316A)—CMI, 1948.

35, 565 Wood blocks in cellar, Perranzabuloe, Cornwall, 1949. F. Rilston.

Mucor hiemalis Wehm.

17, 363 New Zealand butter, Cambridge. F. T. Brooks—NCTC(1125), 1921.

21, 216 R. T. Tabor—NCTC(5066), 1937. (+) m. 21217.

21, 217 R. T. Tabor—NCTC(5067), 1937. (-) m. 21216.

57, 406 Straw litter, Aberystwyth, 1952. P. K. C. Austwick(V. 120).

62, 474 Bonea macrophylla, Kundang, Malaya, 1956. A. Johnston(C(NS)100).

Mucor janssenii Lendner

77, 436 Man, assoc. with mucormycosis, Durban, S. Africa, 1959. K. C. Watson—J. Walker.

Mucor javanicus Wehm.

25, 330 Central lab., Manchurian Railway—NCTC(1901), 1924.

Mucor lamprosporus Lendner

73, 960 Maggots on bat dung, Aburi, Ghana, 1957. V. Dring(AP. 7).

Mucor microsporus Namysl.

53, 584 D. H. Linder—A. F. Blakeslee(Strain C. 75)—ATCC(8541)—CMI, 1953.

Mucor mucedo Auct.

26, 441 C. G. Dobbs—CMI, 1948.

29, 662 Burgeff—CBS—CMI, 1948.

63, 533 Cherry, Richmond, 1956. J. Hawkins.

78, 379 U. S. A., 1941. V. M. Cutter(65)—ATCC(7941).

78, 380 U. S. A., 1945. V. M. Cutter(544)—ATCC(9836).

78, 407 CBS—CMI, 1959. (+) m. 78, 408.

78, 408 CBS—CMI, 1959. (-) m. 78, 407.

Mucor petrinsularis Naumov var. *ovalisporus* G. Smith

71, 627 (T) Human ear, London. W. G. Henderson—J. Walker—G. Smith(BB331)—CMI, 1958.

Mucor plumbeus Bon.

(Syn. *M. spinosus* van Tiegh.)

14, 781 Paper mill slime, Lancaster. E. M. Wakefield—CMI, 1947.

38, 798 Kenya, 1949. R. M. Nattrass(1298).

74, 386 Tyseley, Birmingham, 1958. N. H. Seymour.

Mucor prainii Chodat & Nech.

39, 478 Lettuce roots, Italy, 1950. A. Ciccarone.

Mucor pusillus Lindt

57, 407 Mouldy hay, Ayr, 1953. P. K. C. Austwick(V. 413/3).

69, 928 Aborted calf, Salisbury, Rhodesia, 1957. Vet. Res. Lab., Salisbury—A. Rothwell(MR. 14722).

71, 629 Calf, Weybridge. P. K. C. Austwick—G. Smith(BB. 325)—CMI, 1958. Homothallic strain.

Mucor racemosus Fresen.

17, 313 Meat in cold storage, Cambridge, 1919. F. T. Brooks—NCTC(1122), 1921.

17, 364 Gwynne-Vaughan—NCTC(1211), 1922.

37, 018 Human ear, England. C. G. Dobbs(MR. 6)—CMI, 1949.

37, 019 Forest soil, England. C. G. Dobbs(MR. 8)—CMI, 1949.

35, 716 Table mustard, England, 1949.

52, 259 Man (cadaver), England, 1953. A. C. Hunt.

57, 408 Lung of turkey poult, Oxford, 1952. P. K. C. Austwick(V. 90/1).

Mucor ramannianus Möller

29, 661 Dale—CBS—CMI, 1948.

35, 044(a) Casing soil, mushroom bed, Cheshunt, 1949. P. H. Williams—E. M. Wakefield.

74, 578 Soil, Vert Wood, Laughton, Sussex, 1958. J. Elphick.

Mucor rouxii (Calmette) Wehmer

68, 072 CBS, 1953. W. M. Page.

Mucor saturninus Hagem

50, 683 Apple, Kew, Surrey, 1952. J. Hawkins.

Mucor spinosus van Tiegh.

— see *M. plumbeus*

Mucor subtilissimus Oudem.

45, 618 Faeces of diseased honey bee, Isleworth, Middlesex, 1951. H. A. Dade.

Mucor varians Povah

21, 997 Contaminant of culture, Kew, 1948.

36, 525 Rice, Malaya. A. Johnston(C. 355)—CMI, 1949.

Mucor vesiculosus G. Smith

— see *Gongronella butleri*

Mycogone perniciosa Magn.

46, 869 Mushroom, Britain, 1950. P. H. Williams.

Mycosphaerella musicola Leach

60, 431 Banana, Kumasi, Ghana, 1955. L. Piening.

Mycosphaerella pinodes (Berk. & Blox.) Vestergt.

74, 280 Pea seeds, Sheffield, Yorks., 1955. J. Kennedy.

Mycotypha microspora Fenner

31, 239 Rag-paper document, London, 1948. F. D. Armitage.

Myrothecium advena Sacc.

70, 817 Arabic coffee seedlings, Chikmagalur District, Mysore, S. India, 1957. Coffee Board Res. Sta. (12).

- 71, 817 *Monochoria* sp., Singapore. G. Lim—CMI, 1958.
72, 025 *Bryophyllum* sp., Ghana, 1957. L. Piening(7).

Myrothecium jollymanii Preston

- 1, 495 (T) Dried tobacco leaves, Nyasaland, 1936. R. W. Jollyman(145)—CMI—N. C. Preston(145A).
61, 176 *Elaeis guineensis* leaves (seedling), Nigeria, 1955. J. S. Robertson (L. 5. 55).

Myrothecium roridum Tode ex Fr.

- 33, 307 Tomato, Nanking, China, 1946. P. C. Cheo—C. T. Wei.
41, 736 Soil, Ontario, Canada, 1948. R. G. Atkinson(24).
52, 041 *Solanum muricatum*, Tanganyika, 1953. G. B. Wallace(137/52).
60, 912 *Ammophila arenaria* roots, England, 1955. J. C. Brown(B. 30).
61, 681 Leaves of *Hibiscus rosa-sinensis*, Cuttack, Orissa, India, 1955. U. N. Mohanty(2).
62, 948 Lettuce, Malaya, 1956. A. Johnston(C(NS)45).
77, 325 *Trichosanthes anguina*, Guadalcanal, British Solomon Is., 1959. A. Johnston(B. S. I. 256).

Myrothecium striatisporum Preston

- 1, 526 (T) Soil, New Zealand. J. C. Neill(582)—CMI—Preston(II)—CMI, 1947.
45, 148 (A) *Glyceria aquatica*, Oxfordshire, 1949. N. C. Preston(36).
77, 011 Soil, Egypt, 1958. H. M. Yusef(B. 227).

Myrothecium verrucaria Ditmar ex Fr. (non *Peziza verrucaria* Alb. & Schw.)

- 25, 291 Canvas shoe, England. G. Smith(T. 28)—CMI, 1948.
33, 551 Soy bean, Kiangsu, China, 1947. S. T. Liu—C. T. Wei.
41, 737 Soil, Ontario, Canada, 1948. R. G. Atkinson(25).
44, 743 *Chrysanthemum* root, Staffordshire. N. C. Preston(60).
45, 541 Cotton bale, Washington, D. C., U. S. A. M. H. Downing (QM. 460)—CMI, 1951. (= USDA [or BPI] 1334. 2).
72, 753 Soil, Baghdad, Iraq, 1958. M. K. Tolba.
72, 419 Clover, Macdonald College, Quebec, 1957. R. H. Eotey(581).

Myxotrichum aeruginosum Mont.

- 61, 192 Sand dunes, England, 1955. J. C. Brown(S. 759).

Nectria aurantiaca (Tul.) Jacz.

- 62, 101(a) *Ulmus* sp., Warwickshire, 1955. E. A. Ellis.
63, 581(a) *Ulmus*, sp., Warwickshire, 1956. E. A. Ellis.

Nectria bactridioides Berk. & Br.

- 62, 240(a) Cacao, Serdang, Malaya, 1955. A. Johnston(1473).
63, 286 Cacao, Perak, Malaya, 1956. A. Johnston(1601).

Nectria coccinea (Pers. ex Fr.) Fr.

- 73, 335 *Acer* sp., Gwydyr Forest, Llanrwst, Caerns., 1958. C. Booth.

Nectria dealbata Berk. & Br.

- 53, 165 *Corynocarpus laevigata*, Auckland City, New Zealand, 1953. D. W. Mackenzie—J. M. Dingley (Herb. P. D. D., N. Z., 12165).

Nectria episphaeria (Tode ex Fr.) Fr.

- 73, 016 Hawthorn, nr. Abbotsbury, Dorset, 1958. S. Francis.

Nectria flavoviridis (Fuckel) Wollenw.

- 73, 440(a) *Acer* sp., Gwydyr Forest, Llanrwst, N. Wales, 1958. C. Booth.

Nectria fuckeliana Booth

- 39, 700 (A) Wollenweber(1)—CBS—CMI, 1950.

- 73, 333 (A) Larch, Swallow Falls, Bettws-y-Coed, N. Wales, 1958. C. Booth.
 78, 027 (A) Sitka spruce, Wales, 1959. J. Palmer—School of Forestry, Oxford.
- Nectria galligena* Bres.
 12, 280 *Fraxinus excelsior* twigs, Wheatfen Broad, Norfolk, 1947. M. B. Ellis.
- Nectria gliocladioides* Smalley & Hansen
 71, 095 (T) *Lilium auratum* bulb, U.S.A., 1955. ATCC(12881).
- Nectria haematococca* Berk. & Br.
 23, 982 Contaminant in culture, Kew, 1948. H. A. Dade.
 58, 039 Cacao pod, Panguwama, Sierra Leone, 1954. F. C. Deighton(M. 6224).
 61, 738(a) Dead branch of cacao, Kallahun, Luawa, Sierra Leone, 1955.
 C. T. Pyne(M. 6439).
 63, 862(i) Cacao, Sierra Leone, 1956. C. T. Pyne(M. 6494).
 72, 659 Navy cordage, W. Africa, 1958. N. I. Hendey.
 76, 761 Wilted peas, Rothamsted Exp. Sta., Herts., 1959.
 E. W. Buxton.
- Nectria hederæ* Booth
 58, 770(a) (T) Ivy, Royal Bot. Gdns., Kew, 1954. C. Booth.
- Nectria inventa* Pethyb.
 17, 438(a) *Polygonum sieboldii* stems, Boxhill, Surrey, 1947. S. J. Hughes &
 M. B. Ellis.
 51, 924 Fodder beet, Lincolnshire, 1953. C. E. Cornford.
 52, 641 Soil, Chobham Common, Surrey, 1953. P. Bull—M. P. Topping(327).
 54, 377 *Polyporus squamosus*, Oakwell, Leeds, 1953. C. J. La Touche.
 61, 335(a) *Urtica* stems, Goblin Coombe, Cleve, Somerset, 1955. A. H. S.
 Brown.
- Nectria jungeri* P. Henn.
 63, 862(c) Cacao, Sierra Leone. C. T. Pyne(M. 6494)—CMI, 1956.
- Nectria lugdunensis* Webster
 74, 951(i) (T) *Alnus* leaves in water, Sheffield, 1958. J. Webster. m. 74, 951(ii).
 74, 951(ii) (T) ditto. m. 74, 951(i).
- Nectria mammoidea* Phil. & Plowr.
 62, 739 *Acer*, Bolton Abbey, Yorks., 1956. W. G. Bramley(C/56/11).
 72, 789(c) Elm, Ribston Park, Wetherby, Yorks, 1958. C. Booth.
 73, 369(b) Beech, Gwydyr Forest, Llanrwst, Caerns, 1958. C. Booth.
 69, 361 *Smyrnum olusatrum* seeds, Surlingham, Norfolk, 1957. E. A. Ellis.
- Nectria ochroleuca* (Schw.) Berk.
 50, 509 Tea, Kenya, 1952. N. A. Goodchild(M. 26).
 53, 164 *Lupinus arboreus*, New Zealand, 1953. J. M. Dingley(12165).
 53, 309(a) *Chlorophora nigra*, Sierra Leone, 1953. F. C. Deighton.
 53, 311 *Albizia adianthifolia*, Sierra Leone, 1953. F. C. Deighton(M. 5420).
 61, 738(b) Cacao, Sierra Leone, 1955. C. T. Pyne(M. 6439).
 63, 287(a) Cacao, Tangkak Agric. Sta., Johore, Malaya, 1956. A. Johnston
 (1623).
- Nectria pallidula* Cooke
 77, 926(a) Yew, Cadzon Park, Glasgow, 1959. D. Reid.
- Nectria penicillioides* Ranzoni
 63, 372(i) (T) Decaying submerged leaves of *Acer* sp., California, U.S.A.,
 1956. F. V. Ranzoni.
 63, 372(ii) As above.

Nectria peziza (Tode ex Fr.) Fr.

- 53, 559 *Polyporus squamosus*, Mulgrave Woods, Yorks., 1953. C. Booth.

Nectria pityrodes Mont. var. *saccharina* Berk. & Br.

(Syn. *Hymenula socia* Sacc.)

- 37, 228(a) *Albizzia zygia* bark, Tafo, Ghana, 1949. S. J. Hughes.
62, 005 Dead Wood, Serdang, Malaya, 1955. A. Johnston (1460).
62, 335 Pod of ? *Albizzia lebeck*, Belgian Congo, 1956. F. Meyer (219).

Nectria purtonii (Grev.) Berk.

- 76, 569(c) *Melanconis stilbostoma* on birch, Pateley Bridge, Yorks., 1959.
W. G. Bramley (C/59/14).

Nectria sinopica (Fr.) Fr.

- 53, 560 *Hedera helix*, Mulgrave Woods, Yorks., 1953. C. Booth.

Nectria viridescens Booth

- 73, 377(a) (A) *Betula* sp., Gwydyr Forest, Llanrwst, Caerns., Wales, 1958.
C. Booth.
79, 132 (A) Rabbit dung, Lindwick Common, nr. Sheffield, Yorks., 1959.
J. E. Webster.

Nectriopsis aureo-nitens (Tul.) Maire

- 61, 425 Bark of pine, Forest of Dean, Gloucs., 1955. A. H. S. Brown.

Nematospora coryli Peglion

- 77, 422 *Phaseolus vulgaris*, Kampala, Uganda, 1959. C. Logan.

Nematospora gossypii Ashby & Nowell

(Syn. *Ashbya gossypii* (Ashby & Nowell) Guill.)

- 31, 268 W. J. Robbins, N. Y. Bot. Garden, U. S. A. (A. -1)—CMI, 1948.
31, 279 CBS—CMI, 1948.
37, 638 Cotton boll, Barberton, S. Africa. G. M. Wickens—CMI, 1949.

Neocosmospora vasinfecta E. F. Smith

- 49, 786 Soil, Dacca, Pakistan. Q. A. Ahmed (49)—CMI, 1952.
54, 709 Soil, S. Australia, 1953. C. G. Hansford (Univ. Adelaide 11238/4).
58, 494 Coconut, Keta, Ghana, 1954. E. B. Martyn (130)—M. F. Madelin.
75, 007 Banaras University, India, 1958. A. Lal (C. T. 9).

Neofabraea perennans Kienholz

- 69, 281 Apple, G. B. M. P. McGonagle—CMI, 1957.

Neurospora crassa Shear & Dodge

- 17, 836 G. W. Beadle (37401a)—ATCC (9683)—NCTC (7045), 1945. X-ray mutant; assay of inositol.
19, 419 G. W. Beadle (34486)—N. H. Horowitz, California—CMI, 1947. (= ATCC 9277). X-ray mutant; assay of choline.
19, 420 G. W. Beadle (33757)—N. H. Horowitz, California—CMI, 1947. (= ATCC 9344). X-ray mutant; assay of leucine.
24, 298 G. W. Beadle (9185)—ATCC (10333)—CMI, 1948. X-ray mutant; assay of aneurin.
31, 288 G. W. Beadle (1633)—ATCC (9278)—CMI, 1948. X-ray mutant; assay of p-aminobenzoic acid.
44, 244 G. W. Beadle (51505-3003-8A)—ATCC (10334), 1948. X-ray mutant; assay of proline.
53, 238 G. W. Beadle (Abb. 4)—ATCC (10336)—CMI, 1953. Wild type 'A'. m. 53, 239.
53, 239 G. W. Beadle (Abb. 12)—ATCC (10337)—CMI, 1953. Wild type 'a'. m. 53, 238.
53, 240 G. W. Beadle (Stanford Univ. strain 1)—ATCC (9279)—CMI, 1953. Wild type 'A'.
68, 614 D. H. Smyth—CMI, 1957. Strain 3411 (Amino-acid-oxidase).

- 75, 721 B. O. Dodge(5256A)—G. W. Beadle—ATCC(10815), 1950.
 75, 722 B. O. Dodge(5297A)—G. W. Beadle—ATCC(10816), 1950.
 75, 723 G. W. Beadle(38706)—ATCC(10780), 1950. Assay of methionine.
 75, 724 G. W. Beadle(28610)—ATCC(11063), 1951. Assay of adenine and hypoxanthine.
 75, 725 G. W. Beadle(3416.R1.A)—ATCC(11519), 1953. Requires nicotinic acid.
 75, 726 G. W. Beadle(4540.R2.A)—ATCC(11520), 1953. Requires nicotinic acid.
 75, 727 G. W. Beadle(39401.R1)—ATCC(11521), 1953. Requires tryptophane and niacin.
 75, 728 Mary B. Mitchell(94.R1.a)—ATCC(11943), 1954. Requires histidine.
 75, 729 Mary B. Mitchell(1298)—ATCC(11993), 1954. Requires uridine.
 75, 730 H. K. Mitchell(36601)—ATCC(12623), 1956. Accumulates orotic acid and oxotidine.
- Neurospora sitophila* Shear & Dodge
 21, 944 G. W. Beadle(299)—E. Barton-Wright—NCTC(6813), 1944. X-ray mutant; assay of pyridoxin (= ATCC. 9276).
 60, 354 Arlington, Va., U. S. A. B. O. Dodge(Arl. 6(A) × Arl. 10(a))—R. W. G. Dennis, 1955.
 61, 372 Burnt wood & ground, Bolivia, 1955. Noel Kempff.
 63, 919 J. T. Duncan, 1936—G. Smith(BB. 144). (+) m. 63, 920.
 63, 920 J. T. Duncan, 1936—G. Smith(BB. 144). (-) m. 63, 919.
- Neurospora tetrasperma* Shear & Dodge
 34, 454 D. G. Catcheside, Cambridge—CMI, 1949.
- Nigrospora oryzae* (Berk. & Br.) Petch
 62, 689 Maize, Nyasaland, 1956. D. C. M. Corbett(1283).
 62, 530(a) Rice, Sierra Leone. C. T. Pyne(M6479)—CMI, 1956.
 79, 525 Soil cropped with Arhar (Cajanus cajan), Banaras, India, A. Lal(G. 5).
- Nigrospora panici* Zimm.
 78, 285(b) Onion, College Farm, Dharwar, India. 1959. K. M. Ponappa.
- Nigrospora sacchari* (Speg.) Mason
 77, 472(d) Sugarcane, Kampong Landb. Biak, New Guinea, 1959. A. Johnston (NNG. 26).
- Nigrospora sphaerica* (Sacc.) Mason
 46, 685 Dactylis glomerata, Annerley Park, Notts., 1951. J. Webster.
- Nocardia rugosa* Di Marco & Spalla
 71, 674 Messrs. Farmitalia, Milan—CMI, 1958. Antibiotic strain, subject of British Patent No. 794151.
- Nodulisporium africanum* G. Smith
 62, 333 Belgian Congo, 1955. J. Meyer(2136).
- Nodulisporium didymosporum* Nicot
 67, 730 (T) Soil, Sahara Desert, 1956. J. Nicot(TAG8).
- Oedocephalum roseum* Cooke
 60, 070 Contaminant of culture, Sheffield, 1955. J. Webster(1643b).
 74, 901 Chicken dung, Guam, Marian Is., 1958. S. Stribling.
- Oidiodendron griseum* Robak
 45, 947 Soil, Ampthill Forest Nursery, Beds., 1951. J. E. Brind(7. H. II).
 50, 664 Soil, England, 1952. P. W. Brian(BRL. 783).
- Oidiodendron nigrum* Robak
 — see *Trichosporium cerealis*.

Oidiodendron rhodogenum Robak

67, 992 Stomach contents of aborted bovine foetus, Weybridge, 1956. P. K. C. Austwick(A. 560).

68, 735 Cellophane in sandy soil, Santon Downham, Suffolk, 1956. H. Tribe (241B).

Oospora citriaurantii (Ferraris) Sacc. & Syd.

— see *Geotrichum candidum* var. *citriaurantii*

Oospora crustacea (Bull.) Sacc.

— see *Sporendonema casei*.

Oospora fragrans Berkh. var. *minuta* Berkh.

17, 470 Bainier Coll'n—M. B. Church, Washington(4719.2)—NCTC(1742), 1924.

Oospora humi (Mazé) Berkh.

17, 469 Bainier Coll'n—M. B. Church, Washington(1419.10)—NCTC(1743), 1924.

Oospora lactis (Fresen.) Sacc.

— see *Geotrichum candidum*.

Ophiobolus miyabeanus Ito & Kurib.

— see *Cochliobolus miyabeanus* (Ito & Kurib.) Drechs1.

Ophionectria cylindrospora (Sollon.) Berl. & Vogl.

63, 519 Creosoted Scots Pine stump, Cambridge, 1956. J. Rishbeth(BS-5).

68, 123 Pine stump, Brandon, Suffolk. J. Rishbeth—CMI, 1956.

Ophiostoma piceae (Müñch) H. & P. Syd.

— see *Ceratocystis piceae*.

Othia spiraeae (Fuckel) Fuckel

63, 581(b) Elm, Warwickshire, 1956. E. A. Ellis.

Paecilomyces carneus (Duché & Heim) Brown & Smith

58, 417 Soil, G. B., 1931. J. H. V. Charles—G. Smith(BB. 132)—A. H. S. Brown (Pa16).

58, 418 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 5)—G. Smith (S109)—A. H. S. Brown(Pa19).

58, 424 Mouldy wall in vaults, London, 1950. A. H. S. Brown(Pa27).

58, 429 Soil, Wicken Fen, Cambridge, 1951. H. Stenton(W. 113)—A. H. S. Brown (Pa33).

58, 434 Duché—CBS (as *Spicaria carnea* Duché & Heim (A.))—A. H. S. Brown (Pa39), 1951.

58, 435 CBS—A. H. S. Brown(Pa. 40), 1951 (as *Spicaria decumbens* Oud.).

58, 447 Soil from road side, Gelston, Castle Douglas, 1952. S. Marcus(825)—A. H. S. Brown(Pa56).

59, 470 Chalk soil, England, 1955. V. Sankey.

Paecilomyces dactylethromorphus Batista & Maia

65, 752 (T) N/20 acetic acid, Brazil, 1954. O. S. da Silva—A. C. Batista(235)—G. Smith.

Paecilomyces elegans (Corda) Mason & Hughes

(Syn. *Spicaria elegans* Corda)

22, 573(a) Betula periderm, Richmond Park, Surrey, 1948. S. J. Hughes.

27, 616(a) Conifer wood, Roche Abbey, Yorks., 1948. S. J. Hughes.

58, 420 Soil, Great Britain, J. H. Warcup(K2/1)—G. Smith—A. H. S. Brown(Pa. 23), 1950.

58, 430 Bark of *Pinus silvestris*, Black Wood of Rannoch, Scotland, 1953.

A. H. S. Brown(Pa. 34).

- 58, 431 CBS(I)—A. H. S. Brown(Pa. 36), 1951, (as *Spicaria elegans* (Corda) Harz).
 58, 432 Hamburg, CBS(II)—A. H. S. Brown(Pa. 37), 1951, (as *Spicaria elegans* (Corda) Harz).
 59, 139 Larix log, Mortimer Forest, Berks., 1954. S. Batko.
 59, 140(a) Larix log, Mortimer Forest, Berks., 1954. S. Batko.
 59, 836 Chalk soil, England, 1955. V. Sankey.
 59, 837 Chalk soil, England, 1955. V. Sankey.
 62, 476 Pineapple leaf, Malaya, 1956. A. Johnston(C/NS/104).
 63, 896 Soil, Belgian Congo, 1956. M. Maire(41451).

***Paecilomyces farinosus* (Dicks. ex Fr.) Brown & Smith**

- 34, 420 E. W. Mason—CBS—CMI, 1949. (As *Isaria farinosa*).
 50, 915 Pupa of *Mamestra brassicae*, Belfast, N'n Ireland, 1952. A. E. Muskett.
 58, 441 Beckhuis v. Till—CBS—A. H. S. Brown(Pa. 46), 1951, as *Spicaria verticillata* (Corda) Lindau.
 58, 444 CBS—A. H. S. Brown(Pa. 50), 1951, as *Isaria farinosa* (Dicks.) Fr.
 58, 712 J. Nicot (Mycothèque, Paris)—G. Smith(Pa65), 1954.
 61, 355 An insect, Forest of Dean, 1955. A. H. S. Brown.
 67, 745 Pupa, among leaves, Hardcastle Craggs, 1956. R. Watling.
 71, 622 Garden soil, Harrow, Middlesex. G. Smith(BB. 327)—CMI, 1958 (as *Penicillium alboaurantium* G. Smith(T)).
 71, 671 Sputum, London, 1958. R. W. Riddell(43/29).
 71, 672 Sputum, London, 1958. R. W. Riddell(86/26).

***Paecilomyces flavescens* Brown & Smith**

- 45, 948 (T) Soil, Ampthill Forest Nursery, Beds., 1949. J. E. Brind(A. H. I. 4) — A. H. S. Brown(Pa35).

***Paecilomyces fumosoroseus* (Wize) Brown & Smith**

- 58, 413 Butter, Cork, Ireland. Inst. Dairy Sci., Cork—CBS—A. H. S. Brown (Pa6), 1950. (As *Paecilomyces hibernicus* Kennelly & Grimes (A)).
 58, 433 Vuillemin—CBS—A. H. S. Brown(Pa38), 1951 as *Spicaria aphodii* Vuill. (A).
 58, 439 Bondarzew—CBS—A. H. S. Brown(Pa44), 1951. As *Spicaria fumosorosea* (Wize) Vassily.
 58, 440 CBS—A. H. S. Brown(Pa45), 1951 as *Spicaria fumosorosea* (Wize) Vassily.
 58, 455 Soil, Wicken Fen, Cambridge. H. Stenton(W28)—A. H. S. Brown(Pa51), 1951.
 59, 161 *Bemisia inconspicua*, Ceylon. C. M. E. Mendis, 1955.
 59, 628(c) Alkaline gelatine containing potassium ferrocyanide, Egypt, 1955. A. H. Montasiz.

***Paecilomyces fusisporus* Saksena**

- 57, 442 (T) Soil, Patharia forest, nr. Sagar, India, 1952. S. B. Saksena—ITCC.
 71, 810 Air, Manhattan, Kansas, U.S.A., 1956. C. T. Rogerson(A. 350-3)—S. J. Hughes(DAOM. 54780)—G. Smith(Pa. 74).
 77, 016 Soil, Egypt, 1959. H. M. Yusef(B. 251).

***Paecilomyces herbarum* Brown & Smith**

- 53, 581 (T) *Urtica dioica*, Mulgrave Woods, Yorkshire, 1953. C. Booth—A. H. S. Brown(Pa63).

***Paecilomyces hibernicus* Kennelly & Grimes**

- see *Paecilomyces fumosoroseus*

***Paecilomyces mandshuricus* (Saito) Thom var. *saturatus* Nak., Tak., & Suem.**

- see *P. varioti*.

Paecilomyces marquandii (Masse) Hughes(Syn. *Spicaria violacea* Abbott; *Verticillium marquandii* Masse)

- 33, 204 *Hygrophorus virgineus*, Copmanthorpe, Yorks., 1948. K. G. Payne—W. G. Bramley.
 39, 815 Soil, U.S.A. Gilman & Abbott—C. Thom(4894.4), 1927; NRRL(901)—G. Smith, 1949 as *Spicaria violacea* Abbott (T).
 58, 425 Soil, Lakenheath Warren, Suffolk, 1949. J. H. Warcup(B.28)—A. H. S. Brown(Pa.28).
 58, 443 Soil, Ghent. Prof. van Holder(W7)—CBS—A. H. S. Brown(Pa.48), 1951.
 58, 446 Soil. S. Marcus(569)—A. H. S. Brown(Pa.55), 1952.
 58, 450 Gills of *Hygrophorus virgineus*, Sevenoaks, Kent, 1953. C. T. Ingold—G. Smith—A. H. S. Brown(Pa.61).

Paecilomyces parvus Brown & Smith(Syn. *P. burci* (Poll.) Thom)

- 58, 410 (T) Stühmer—CBS—A. H. S. Brown(Pa3), 1950.

Paecilomyces puntonii (Vuill.) Nannizzi

- 58, 409 R. Ciferri—CBS—A. H. S. Brown(Pa.2), 1950.
 58, 414 ACTC(1138)—H. Raistrick(Ad.105), 1925—A. H. S. Brown(Pa.10).
 58, 415 B.C.I.R.A.—G. Smith(BB.123), 1930—A. H. S. Brown(Pa.15).

Paecilomyces varioti Bain.

- 16, 196 Jute fibre, India. S. W. Basu(18)—CMI, 1947.
 17, 457 G. Smith. Isolation used for testing mould-proofing.
 31, 388 *Encephalartos lehmannii*, Southern Rhodesia. G. R. Bates(7135A)—CMI, 1948.
 40, 025 Library paste, Storrs, Conn., U.S.A., 1904. C. Thom(34) as *Penicillium divaricatum* Thom (T)—NRRL(1115)—G. Smith.
 57, 409 Aborted calf foetus, Devon, 1952. P. K. Austwick(V.35/2).
 58, 411 Nakazawa—CBS (as *Paecilomyces mandshuricus* (Saito) Thom var. *saturatus* Nak., Tak., & Suem. (A))—A. H. S. Brown(Pa4), 1950.
 58, 416 NRRL(1123), 1946—G. Smith(P.219)—A. H. S. Brown(Pa18) as *Penicillium viniferum* Sakaguchi.
 58, 427 NRRL(1282), 1946—G. Smith(X.26) as *Monilia formosa* Sak., Inoue & Tada—A. H. S. Brown(Pa31).
 58, 451 Dust shaken from hay, Great Britain, 1953. C. T. Ingold—G. Smith (Pa.62).
 58, 453 CBS—A. H. S. Brown(Pa7), 1950.
 71, 812 Air, Panama Canal Zone, 1944. Hutchinson—QM(4918)—G. Smith(Pa.78).

Paecilomyces victoriae (von Szilvinyi) Brown & Smith

- 58, 412 (A) A. von Szilvinyi—CBS—A. H. S. Brown(Pa.5), 1950.

Papularia sphaerosperma (Pers. ex Fr.) v. Höhn.

- 60, 232 Soil round *Dalbergia sissoo* roots, India, 1955. B. K. Bakshi(43).
 63, 305 *Phragmites*, Suffolk, 1956. A. H. S. Brown.
 63, 333 Dust, London, 1956. R. R. Davies.

Parasitella simplex Bain.

- 41, 057 Blakeslee—CBS—CMI, 1950. (+) m. 41058.
 41, 058 Blakeslee—CBS—CMI, 1950. (-) m. 41057.

Penicillioopsis clavariaeformis Solms-Laubach

- 60, 372 Fallen fruits of *Diospyros macrophylla*, Buitenzorg, Java—G. Smith (BB.223)—CMI, 1955.

Penicillium aculeatum Raper & Fenn.

- 40, 588 (A) Textiles, Florida, U.S.A. W. H. Weston—NRRL(2129)—G. Smith, 1949.

**Penicillium aculeatum* Raper & Fennell var. *apiculatum* Abe
68, 239 (T) ?Soil, Japan. S. Abe(FAT. 1152)—CMI, 1957.

Penicillium adametzi Zal.

39, 751 (T) Soil, under conifers, nr. Poznan, Poland. Zaleski—CBS—C. Thom
(5010), 1928—NRRL(737)—G. Smith, 1949.
51, 447(a) Soil, Durham, 1952. J. A. Richardson(10. R).

Penicillium adametzioides Abe

— see *P. multicolor*

Penicillium albicans Bain.

63, 215 Canada, 1956. S. J. Hughes—G. Smith.

Penicillium albidum Sopp

40, 219 Janke—CBS—NRRL(2043)—G. Smith, 1949.

Penicillium alboaurantium G. Smith

— see *Paecilomyces farinosus*.

**Penicillium asperum* Raper & Thom

(Syn. *Carpenteles asperum* Shear)

39, 739 (T) Soil, Tela, Honduras. O. A. Reinking—C. L. Shear—NRRL(715),
1931—G. Smith.

Penicillium atramentosum Thom

39, 752 (T) Cheese, Storrs, Conn., 1945. C. Thom(38)—Biourge(116)—Thom
(4733. 3); NRRL(795)—G. Smith.

Penicillium atrovenetum G. Smith

61, 837 (T) Soil, Sussex Downs, 1952. G. Smith(SM. 683). (= ATCC. 13352).
61, 836 (A) Sand dunes, Perranporth, Cornwall, 1952. G. Smith(SM. 715).
(= ATCC. 13351).
61, 835 (A) Soil, Norfolk, 1943. G. Smith(M. 467).

Penicillium aurantiocandidum Dierckx ex Biourge

39, 814 (?T) Biourge(11)—C. Thom(4733/6); NRRL(884)—G. Smith, 1949.

Penicillium aurantioviolaceum Biourge

39, 740 Beech forest, Germany. Stapp & Bortels, as *P. roseo-viridum* (T)—
C. Thom, 1935; NRRL(760)—G. Smith.

Penicillium aurantiovirens Biourge

34, 846(i) (T) Biourge—LSH(P. 152)—CMI, 1949.
34, 846(ii) (T) Biourge—LSH(P. 152)—NRRL(2138)—G. Smith—CMI, 1950.

Penicillium avellaneum Thom & Tur.

40, 230 (A) Soil, San Antonio, Tex., U. S. A., 1943. K. B. Raper & C. Thom—
NRRL(1938)—G. Smith.
54, 225 Soil, Ibadan, Nigeria, 1953. R. M. Jackson.

Penicillium baarnense van Beyma

40, 590 (T) Soil, Baarn, Holland. Van Beyma—CBS—NRRL(2086)—G. Smith—
CMI, 1950.
45, 477 Soil, Cambridge, 1950. J. H. Warcup(E. 115).

Penicillium bacillosporium Swift

40, 045 (T) Begonia leaf, New York City. M. E. Swift—NRRL(1025)—G. Smith,
1949.

Penicillium biforme Thom

39, 820 (T) Cheese, U.S.A., 1904. C. Thom(38); NRRL(895)—G. Smith.

Penicillium brefeldianum Dodge

40, 592 Canada. W.I. Illman—NRRL(2083)—G. Smith, 1949.

55, 205 Soil, Nairobi, Kenya, 1954. I.A.S. Gibson.

59, 602 Sandy soil, Egypt, 1954. M.A. Ragab.

62, 409 Piper nigrum (moribund seedling), Kuching, Sarawak, 1955. P. Holliday.

62, 577 W.R.N. Williamson(K.D.)—CMI, 1956.

Penicillium brevicompactum Dierckx

17, 456 G. Smith—CMI, 1947. Isolation used for testing mould-proofing.

40, 225 Biourge—CBS—NRRL(2011)—G. Smith, 1949.

51, 447(b) Soil, Durham, 1952. J.A. Richardson(10.R).

**Penicillium brunneostoloniferum* Abe

68, 217 (T) ?Soil, Japan. S. Abe(FAT. 1132)—CMI, 1957.

Penicillium brunneum Udagawa

78, 259 (T) Milled rice, Thailand, 1957. S. Udagawa (Herb.NHL. 6054).

Penicillium camembertii Thom

27, 831 (T) French Camembert cheese, Storrs, Conn., U.S.A., 1904. C. Thom.

Penicillium canadense G. Smith

61, 834 (T) Soil under *Pseudotsuga taxifolia*, Vancouver. G. Smith(BB. 300)—CMI, 1956.

Penicillium canescens Sopp

28, 260 Soil, England. E. Dale—C. Thom(2654), 1910—NRRL(910)—G. Smith.
(= NCTC. 6607).

29, 191 CBS—G. Smith—CMI, 1948.

Penicillium capsulatum Raper & Fenn.

40, 576 (T) Optical instrument, Panama Canal Zone. W. G. Hutchinson—W. H. Weston—NRRL(2056), 1945—G. Smith.

Penicillium carneolutescens G. Smith

40, 218 (T) Hops, England, 1939. G. Smith—CBS—NRRL(2035)—G. Smith.

55, 516 (A) G. Smith (BB. 146)—CMI, 1954.

Penicillium casei Staub

39, 766 Swiss cheese, U.S.A. C. Thom(5056); NRRL(844)—G. Smith, 1949.

Penicillium caseicola Bain.

27, 833 Cheese, Switzerland. A.C. Thaysen—NCTC(602), 1920. (= Raistrick Ac. 25).

28, 810 (? T) Bainier Coll'n—C. Thom(4640. 440)—NRRL(875)—G. Smith, 1949.
(= NCTC. 1717).

63, 365 Brie cheese, Richmond, Surrey, 1956. J. Hawkins.

Penicillium charlesii G. Smith

40, 232 (T) G. Smith—NRRL(1887), 1942—G. Smith.

**Penicillium charlesii* G. Smith var. *rapidum* Abe

68, 228 (T) ?Soil, Japan. S. Abe(FAT. 831)—CMI, 1957.

Penicillium chermesinum Biourge

40, 577 NRRL(2049)—G. Smith, 1949.

Penicillium chrysogenum Thom

- 24, 314 (T) C. Thom(26); NRRL(807)—G. Smith, 1949.
 26, 210 K. B. Raper(NRRL. 1951. B. 25)—NCTC(7088), 1948. (= ATCC. 10, 238).
 Penicillin production, submerged culture, 200/250 μ /ml. Derived from NRRL. 1951 (IMI. 40, 233).
 26, 211 K. B. Raper(NRRL. 2000, Demerec X-1612)—NCTC(7089), 1945.
 X-ray mutant from NRRL. 1951. B. 25 (IMI. 26, 210). (= ATCC. 10, 003).
 Penicillin production, submerged culture, 400-500 μ /ml.
 37, 767 Johnson et al. (Wisconsin Q. 176)—G. Smith—CMI, 1949. (= ATCC. 10, 002). UV mutant from X. 1612 (IMI. 26, 211). Penicillin commercial production, submerged culture, 900-1000 μ /ml.
 40, 233 Canteloupe, Peoria, Ill., U. S. A., 1943. NRRL(1951)—G. Smith.
 62, 728 Glaxo Labs., 1956. C. J. Bessell(P. M. D.).

**Penicillium chrysogenum* Thom var. *fulvescens* Takashima, Arima & Abe
 68, 231 (A) ?Soil, Japan. S. Abe(FAT. 515)—CMI, 1957.

Penicillium citreovirens Abe

- 68, 230 (A) ?Soil, Japan. S. Abe(FAT. 320)—CMI, 1957.

Penicillium citreoviride Biourge

- 40, 575 Military equipment. NRRL(2046)—G. Smith.

**Penicillium citreoviride* Biourge var. *aeneum* Abe

- 68, 225 (A) ?Soil, Japan. S. Abe(FAT. 123)—CMI, 1957.

Penicillium citrinum Thom

- 16, 199 Jute fibre, India. S. W. Basu(37)—CMI, 1948.
 24, 306 F. T. Brooks, Cambridge—Raistrick(Ad. 23)—NCTC(3951), 1931.
 24, 307 Cotton fabric, Shirley Inst., 1928. L. D. Galloway—Raistrick(Ad. 114)—NCTC(3952), 1931. Citrinin production.
 39, 756 Cairo, Egypt. G. Sabut—NRRL(806), 1932—G. Smith.
 49, 122 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton(M. 4663).
 61, 272 NBS(11)—ATCC(9849)—QM(1226)—CMI, 1955. (= NRRL. 756). (U. S. A. Specification MIL-E-5272A.) Test strain for mould-proofing.
 68, 214 ?Soil, Japan. S. Abe(FAT. 513)—CMI, 1957.

Penicillium claviforme Bain.

- 40, 237 CBS—NRRL(2031)—G. Smith, 1949.
 44, 744 Contaminant of culture, Nottingham, 1950. B. Webster.
 50, 744 Contaminant of culture, Kew, Surrey, 1952. J. Hawkins.
 71, 357 Partridge dung, Surlingham, Norfolk, 1957. E. A. Ellis.

**Penicillium claviforme* Bain. var. *candicans* Abe & Ura

- 68, 237 (A) ?Soil, Japan. S. Abe(FAT. 1277)—CMI, 1957.

**Penicillium claviforme* Bain. var. *olivicolor* Abe & Ura

- 68, 238 (A) ?Soil, Japan. S. Abe(FAT. 1278)—CMI, 1957.

Penicillium clavigerum Demel.

- 39, 807 Canada, 1934. G. R. Bisby—NRRL(1003)—G. Smith.

Penicillium commune Thom

- 39, 812(i) (T) Cheese, Storrs, Conn., U. S. A., 1904. C. Thom(23); NRRL(890)—G. Smith.
 39, 812(ii) (T) Cheese, Storrs, Conn., U. S. A., 1904. C. Thom—NRRL(890)—QM(1269). (= ATCC. 10428). U. S. Bureau of Ships Gen. Specification, App. ix, as "P. fusco-glaucum"). Test strain for mould-proofing.

**Penicillium concavorugulosum* Abe

- 68, 240 (A) ?Soil, Japan. S. Abe(FAT. 924)—CMI, 1957.

****Penicillium corylophiloides* Abe**

68, 229 (T) ?Soil, Japan. S. Abe(FAT.306)—CMI, 1957.

***Penicillium corylophilum* Dierckx**

39, 754 (?T) Dierckx—Biourge(78)—C. Thom(4733.42), 1924; NRRL(802)—G. Smith.

56, 398 Coffee, London, 1945. G. Smith(P.218).

62, 729 Glaxo Labs., 1956. C. J. Bessell(M. L. 10/59).

***Penicillium corymbiferum* Westl.**

40, 213 Greenfly, Baarn, Holland, 1941. CBS—NRRL(2031)—G. Smith.

62, 878 Tulip bulb, Walton-on-Thames, Surrey, 1956. J. C. F. Hopkins.

68, 414 *Ornithogalum* sp., Muldersdrift, Transvaal, S. Africa. V. A. Wager (127)—CMI, 1957.

68, 783 Iris bulbs, Guernsey, C. I. D. J. Harrison—CMI, 1957.

***Penicillium crustosum* Thom**

39, 811 Wuchang, China. Y. K. Shih—C. Thom(5461.448), 1934; NRRL(968)—G. Smith.

56, 970 Urine of cow, Cambridge, 1953. P. K. C. Austwick(V.479/1).

***Penicillium cyaneofulvum* Biourge**

39, 764 (T) Biourge—C. Thom(4733.47), 1924—NRRL(837)—G. Smith.

58, 138 McGill strain. E. G. D. Murray—CMI, 1954.

***Penicillium cyaneum* (Bain. & Sart.) Biourge**

39, 744 (?T) Bainier Coll'n. (As *Citromyces cesiae* Bain. & Sart.)—Thom(4640.422); NRRL(775)—G. Smith, 1949.

***Penicillium cyclopium* Westl.**

19, 759 Hyacinth bulbs, England, 1947. A. S. Boughey.

24, 318 Ventriculus of honey-bee, Middlesex, 1948. H. A. Dade.

39, 803 Biourge—C. Thom(4733.48)—NRRL(942)—G. Smith, 1949.

40, 236 H. W. Florey(M-22)—NRRL(1899)—G. Smith, 1949. Produces penicillic acid.

51, 355 Bentonite, G. B. M. E. Adams(62).

***Penicillium cyclopium* Westl. var. *echinatum* Raper & Thom**

40, 028 Contaminant in culture, Ottawa, Canada. G. A. Ledingham—K. B. Raper(NRRL.1151), 1940—G. Smith.

***Penicillium cylindrosporum* G. Smith**

71, 632 (T) Culture contaminant, Harwell, Bucks. J. Robson—G. Smith(BB.326)—CMI, 1958.

***Penicillium daleae* Zal.**

34, 910 (T) Zaleski—CBS—NRRL(2025)—G. Smith, 1949. (= ATCC.10435).

***Penicillium decumbens* Thom**

39, 755 Knoxville, Tenn., U.S.A. C. D. Sherbakoff—NRRL(742), 1933—G. Smith.

50, 575 Raspberries, Scotland, 1952. C. E. Foister (isolate 4).

****Penicillium decumbens* Thom var. *atrovirens* Abe**

68, 223 (A) ?Soil, Japan. S. Abe(FAT.1140)—CMI, 1957.

***Penicillium digitatum* Sacc.**

39, 748 Citrus, Storrs, Conn., U.S.A., 1904. C. Thom(176); NRRL(786)—G. Smith.

62, 255(a) Orange, Cyprus, 1956. G. P. Georghiou.

****Penicillium digitatum* Sacc. var. *latum* Abe**

68, 233 (T) ?Soil, Japan. S. Abe(FAT.605)—CMI, 1957.

***Penicillium divaricatum* Thom**

— see IMI.40025 *Paecilomyces varioti*.

***Penicillium diversum* Raper & Fenn.**

40, 579 (A) Leather, U.S.A. T. C. Gordon—NRRL(2121)—G. Smith.

***Penicillium diversum* Raper & Fenn. var. *aureum* Raper & Fenn.**

40, 031 (T) U.S.A. R. W. Davidson—K. B. Raper(NRRL.1074), 1934—G. Smith.

***Penicillium duclauxii* Delacr.**

24, 312 (A) Delacroix—Thom(20)—M. B. Church—NCTC(581), 1920. (= Raistrick Ad.63).

40, 044 Biourge(351)—C. Thom(4733.53), 1924—NRRL(1030)—G. Smith.

40, 210 Tentage, New Guinea. W. Lawrence White—NRRL(2020)—G. Smith, 1949.

***Penicillium dupontii* Griffon & Maubl. emend. Emerson**

48, 593 (A) Retting guayule, Salinar, Cal., U.S.A., 1945. R. Emerson—NRRL(2155)—ATCC(10, 518).

****Penicillium echinulonalgiovense* Abe**

68, 213 (T) ?Soil, Japan. S. Abe(FAT.907)—CMI, 1957.

***Penicillium egyptiacum* van Beyma**

40, 580 (T) van Beyma—CBS—NRRL(2090)—G. Smith.

***Penicillium ehrlichii* Kleb.**

39, 737 (T) Germany. F. Ehrlich—Klebahn—NRRL(708), 1931—G. Smith.

54, 228 Soil, Ibadan, Nigeria, 1954. R. M. Jackson.

62, 418 Root of *Piper nigrum*, Kuching, Sarawak, 1955. P. Holliday.

67, 867 Man, England, 1956. C. J. La Touche.

****Penicillium estinogenum* Komatsu & Abe**

68, 241 (T) ?Soil, Japan. S. Abe(FAT.1196)—CMI, 1957.

***Penicillium expansum* Link emend. Thom**

28, 619 New Zealand. J. C. Neill(837)—NCTC(5612), 1938.

32, 185 Apple, Richmond, Surrey, 1948. H. A. Dade.

37, 128 Contaminant of culture, CMI, Kew, Surrey, 1949. G. M. Waterhouse. Antagonistic to *Phytophthora*.

39, 761 Apple, U.S.A., 1926. J. S. Cooley—C. Thom(4852); NRRL(976)—G. Smith.

***Penicillium fellutanum* Biourge**

29, 098 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B.41.a).

39, 734 U.S.A. O. W. Richards—NRRL(746), 1935—G. Smith.

****Penicillium fellutanum* Biourge var. *nigrocastaneum* Abe.**

68, 224 (T) ?Soil, Japan. S. Abe(FAT.623)—CMI, 1957.

***Penicillium frequentans* Westl.**

28, 043(i) A. Jorgensen's Lab., Copenhagen (as "*Citromyces* B. Wehmer")—A. C. Thaysen—NCTC(606), 1920. (= Raistrick Ad.6 & Ad.67).

28, 043(ii) G. Smith(Ad.6)—NRRL(1915)—G. Smith, 1949.

46, 814 Soil, Britain, 1948. E. G. Jeffereys—P. W. Brian(532). Production of frequentin.

49, 673 Starch paste adhesive, London, 1952. H. A. Dade.

57, 198 Wood pulp, Gravesend, Kent, 1954. P. Russell.

Penicillium funiculosum Thom

- 22, 813 Dosootie, Karachi, India, 1946. Sen Gupta (Kanpur 364).
 34, 912 Air contaminant, Washington, D.C., U.S.A., 1940. NRRL(1032A)—G. Smith. (= ATCC.10445).
 40, 235 Soil, U.S.A., 1941. C.W. Hesseltine—NRRL(1768)—G. Smith.
 40, 582 Guam. R.E. Shope—NRRL(2075), 1946—G. Smith. Variant isolation.
 48, 843 Maize grain, Southern Rhodesia, 1951. W.E. Kerr(G. 36).
 61, 383 Paper pulp, Slough, Bucks., 1955. P.W. Heron(6b).
 61, 385 Paper pulp, Slough, Bucks., 1955. P.W. Heron(6c1).
 62, 949 Foot rot of pineapple, Malaya, 1956. A. Johnston(C(NS)55).
 63, 903 Soil, Mexico, 1956. J. Nicot(560316.10).
 79, 195 (A) Culture contaminant, Washington, D.C., U.S.A., 1940—NRRL(1132).

"Penicillium fuscoglaucum"

- see 61, 275 *P. commune*.

Penicillium fuscum (Sopp) Raper & Thom

- 39, 747 Soil, Texas, U.S.A. M.B. Morrow—Raper & Thom(NRRL. 721), 1930—G. Smith.

Penicillium gladioli McCull. & Thom

- 34, 911 (T) *Gladiolus* corm, U.S.A. L. McCulloch—Thom(4885), 1930; NRRL(939)—G. Smith.
 38, 567 *Gladiolus* corms, Cambridge. F.T. Brooks—Raistrick(Ad. 65)—NCTC (3994), 1931.

Penicillium godlewskii Zal.

- 40, 591 (T) Soil under pines, Poland. Zaleski—CBS—NRRL(2111)—G. Smith.

Penicillium granulatum Bain.

- 40, 220 Soil, Peoria, Ill., U.S.A., 1942. NRRL(2036)—G. Smith.
 52, 736 Soil, Northern Ireland, 1952. Q.A. Ahmed.
 59, 286 Seed Testing Laboratory, Forestry Commission, Surrey. S. Batko, 1955.

Penicillium griseofulvum Dierckx

- 75, 832 Biourge(B. 34)—G. Smith(P. 68), 1930.

Penicillium griseolum G. Smith

- 71, 626 (T) Sand dunes, Studland, Dorset. J.C. Brown(D. 476)—G. Smith(BB. 323), 1955.

Penicillium helicum Raper & Fenn.

- 40, 593 (T) Soil, Sweden. E. Velander—NRRL(2106)—G. Smith.
 63, 915 Soil, Clophill, Beds., 1949. J.H. Warcup—G. Smith(BB. 245).

Penicillium herquei Bain. & Sart.

- 28, 809(i) (T) *Aguaria pyrifolia* leaves, France. Herque—Bainier Coll'n—Da Fonseca—Thom(4640.477)—NCTC(1721), 1932.
 28, 809(ii) As above, but via NRRL(1040)—G. Smith, 1949.

Penicillium hirayamae Udagawa

- 78, 255 (T) Milled rice, Thailand, 1956. S. Udagawa (Herb. NHL 6046).

Penicillium humuli van Beyma

- 39, 817 (T) Hops, Weißenstephan, Germany. H. Schnegg—van Beyma—CBS—NRRL(872), 1938—G. Smith.

Penicillium implicatum Biourge

- 40, 578 NRRL(2054)—G. Smith, 1949.

Penicillium isariiforme Stolk & Meyer

- 60, 371(i) (T) Woodland soil, Yangambi, Belgian Congo, 1949. J. Meyer(Pe. 8)—A. C. Stolk—G. Smith(BB. 308).
 60, 371(ii) Ditto, J. Meyer(Pe. 8)—CBS.
 70, 950 (A) Ditto, 1955. J. Meyer(32357)—CBS.

Penicillium islandicum Sopp

- 40, 042 F. M. Putterill, Cape Town, S. Africa—Thom(4658. 144. 2)—NRRL(1036)—G. Smith, 1949.
 61, 880 Stomach contents of aborted bovine foetus, Cirencester, Glos., 1955. P. K. C. Austwick(A. 133).

Penicillium italicum Wehm.

- 39, 760 Citrus, California, U. S. A. H. S. Fawcett—NRRL(983), 1930—G. Smith.
 62, 255(b) Orange, Cyprus. G. P. Georgioliou—CMI, 1956.
 78, 681 Orange, S. Africa, 1959. R. A. Christ.

Penicillium janczewskii Zal.

- see *P. nigricans*.

Penicillium janthinellum Blourge

- 40, 238 Soil, Nicaragua, 1945. NRRL(2016)—G. Smith.
 56, 433 Animal storage tank containing formalin, Stockport, 1954. P. J. Gulliver—R. W. G. Dennis.
 75, 588 Soil, Virginia, U. S. A., 1928. C. Thom(4789)—NRRL(904).
 75, 589 C. Thom—NRRL(905)—CMI, 1958.

Penicillium javanicum van Beyma

- 39, 733 (T) Tea roots, Java. Van Beyma—NRRL(707)—G. Smith, 1949.

Penicillium jensenii Zal.

- 39, 768 (T) Poland. Zaleski—CBS—Thom(5010. 10), 1928—NRRL(909)—G. Smith.

Penicillium kapuscinskii Zal.

- 40, 567 (?T) Soil, Poland. Zaleski—CBS—NRRL(2147), 1946—G. Smith.

Penicillium lanosocoeruleum Thom

- 39, 818 (T) Contaminant of culture. Thom(2543a)—NRRL(888)—G. Smith, 1949.

Penicillium lanosogriseum Thom

- 39, 822 (T) Leaf mould, nr. Bussum, Holland, 1913. C. J. Koning—Thom(2746. 2); NRRL(894)—G. Smith.

Penicillium lanosoviride Thom

- 39, 819 (T) Glycerine still, Ardeer, Scotland. J. H. Birkinshaw—Thom(5034. 12), 1939; NRRL(879)—G. Smith.

Penicillium lanosum Westl.

- 40, 224 (T) Westling—CBS—NRRL(2009)—G. Smith, 1949.

Penicillium lapidosum Raper & Fenn.

- 39, 743 (T) Canned blueberries, U. S. A., 1938. E. J. Cameron et al. —NRRL(718)—G. Smith.
 47, 704 J. H. Warcup—CMI, 1951.
 59, 911 Chalk soil, England, 1955. V. Sankey(XBg).

Penicillium lavendulum Raper & Fenn.

- 40, 570 (T) Contaminant of culture, Peoria, Ill., U. S. A., 1947. NRRL(2146)—G. Smith.

Penicillium levitum Raper & Fenn.

39, 735 (T) Modelling clay, U.S.A. B.O. Dodge—NRRL(705), 1936—G. Smith.

**Penicillium lilacinoechinulatum* Abe

68, 211 (T) ?Soil, Japan. S. Abe(FAT. 84)—CMI, 1957.

Penicillium lilacinum Thom

27, 830 (T) Soil, U.S.A. Thom(8)—NRRL(895)—G. Smith, 1949. (= NCTC. 584; ATCC. 10144).

28, 811 (A) Bainier Coll'n. Thom—Raistrick(Ad. 32)—NCTC(1719a), 1931.

58, 419 G.E. Turfitt(T. 20), 1944—G. Smith(S21)—A. H. S. Brown(Pa. 20).

58, 428 Johannesburg, S. Africa, 1947. A. L. James (Timber Res. Lab. 831)—G. Smith—A. H. S. Brown(Pa. 32).

58, 442 Kominami—CBS—A. H. S. Brown(Pa. 47), 1951. (As *Spicaria rubidopurpureum* Aoki).

63, 373 Cotton drill. Nigeria, 1956. D. Butterworth.

68, 212 ?Soil, Japan. S. Abe(FAT. 1233)—CMI, 1957.

79, 197 (A) NRRL(896)—CMI, 1960.

Penicillium lividum Westl.

39, 736 (A) Scotland. E. Dale—Thom(2697), 1913—NRRL(754)—G. Smith, 1949.

Penicillium luteum Zukal

40, 048 (T) Soil, Winnipeg, Canada, 1933. G. R. Bisby—Thom(5357. 208)—NRRL(1010), 1946—G. Smith.

40, 773 Soil, Lakenheath Warren, Suffolk, 1946. J. H. Warcup(B. 65).

44, 338 G. Smith(Ad. 30). Production of luteic acid.

62, 678 Cambridge. E. Evans—Prakob Kanjanasoon—CMI, 1956.

— see also 61, 270 *P. vermiculatum*.

Penicillium martensii Biourge

40, 211 Baarn, Holland. CBS—NRRL(2027)—G. Smith, 1949.

44, 917 Honey bee, Kirton, Boston, Lincs. B. A. Cooper.

Penicillium megalosporum Orpurt & Fennell

68, 320 Soil, Bignalls Nurseries, Barnet, Herts., 1956. E. A. Peterson(12).

Penicillium meleagrimum Biourge

39, 762 Ayrshire, Scotland. J. H. Birkinshaw—Thom(5034. 53), 1929—NRRL(836)—G. Smith, 1949.

**Penicillium meleagrimum* Biourge var. *viridiflavum* Abe

68, 232 (A) ?Soil, Japan. S. Abe(FAT. 803)—CMI, 1957.

Penicillium melinii Thom

40, 216 (?T) Soil, U.S.A. Melin—Thom—CBS—NRRL(2041)—G. Smith, 1949.

52, 730 Soil, Northern Ireland, 1952. Q. A. Ahmed.

60, 401 Scandinavian wood pulp, Gravesend, Kent, 1955. P. Russell(CRL. 865).

Penicillium miczynskii Zal.

40, 030 (T) Earth under conifers, Poroniec, Tatry Mts., Poland. Zaleski—CBS—NRRL(1077), 1928—G. Smith.

Penicillium multicolor Grigor. -Man. & Por.

39, 742 K. B. Raper(NRRL. 764)—G. Smith, 1949.

40, 574 Textiles, Florida, U.S.A. W. H. Weston—NRRL(2058), 1946—G. Smith.

62, 954 Eugenia aquea, Malaya, 1956. A. Johnston(C(NS)136).

68, 227 (A) ?Soil, Japan. S. Abe(FAT. 1302)—CMI, 1957. (As **P. adametzoides* Abe (A)).

70, 034 Grapefruit leaf, Lopinot Valley, Trinidad. M. B. Morris(F. 342)—CMI, 1957.

Penicillium nalgiovense Laxa

- 39, 804 (T) Ellischauer cheese, Nalzovy, Czechoslovakia. Laxa—Thom(5337.2), 1933; NRRL(911)—G. Smith, 1949.

Penicillium namyslowskii Zal.

- 40, 033 (T) Earth under pines, Puszcza Bialowieska Forest, Poland. Zaleski—CBS—Thom(5010.16), 1928—NRRL(1070)—G. Smith.

Penicillium nigricans Bain. ex Thom

- 29, 100 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B.25)—CMI, 1948.
39, 767 (T) Bainier Coll'n—Thom(4640.448), 1922—NRRL(915)—G. Smith.
52, 726 Soil, Northern Ireland, 1952. Q. A. Ahmed.

Penicillium notatum Westl.

- 15, 378 Contaminant of culture, London, 1928. Sir Alexander Fleming's historical isolation. Fleming—Thom(144.5112.1) as *P. rubrum*. NRRL(824)—Smith, 1949. (= NCTC. 4222, = ATCC. 9478). Gives a high yield of notatin.
17, 968 K. B. Raper(NRRL. 832)—NCTC(7087), 1945. Penicillin production submerged culture. (= ATCC. 9179, Thom 144.B.69).
17, 969 K. B. Raper(NRRL. 1249. B.21)—NCTC(7086), 1945—CMI, 1947. Strain derived by monospore selection from Fleming's isolation (IMI. 15378). (= ATCC. 9178). Penicillin production, surface culture.
24, 309 Orange, Persia, 1944. M. Zorriassatein (Z.1. Teheran)—NCTC(7038), 1945.
24, 310 Orange, Persia, 1944. M. Zorriassatein (Z. 6. Teheran)—NCTC(7039), 1945.
24, 317 A. Fleming(85/4)—NCTC(6978), 1945.
38, 632 Pontecorvo(W.3. Cyst.)—D. J. D. Hockenull—J. H. Birkenshaw—CMI, 1949.
39, 759 (T) Hyssopus branches, Norway. Westling—C. Thom(2541)—NRRL(821)—G. Smith, 1949.
53, 261 Broad bean seed, Cyprus, 1953. R. A. Altson(6/23/7).

Penicillium novae-zeelandiae van Beyma

- 38, 496 Soil, Saddlescombe, Sussex, 1949. J. H. Warcup(SLI/3)—CMI, 1949.
40, 584 (T) Fruit body of *Sclerotinia* sp., New Zealand. J. C. Neill—CBS (van Beyma 684)—NRRL(2128)—G. Smith.

Penicillium ochraceum Bain. ex Thom

- 39, 823 Biourge—NRRL(871)—G. Smith, 1949.

Penicillium ochrochloron Biourge

- 39, 806 Copper sulphate solution, Seattle, Wash., U.S.A. Hotson—NRRL(926)—G. Smith, 1949.
61, 271 USDA(1336.2)—QM(477)—CMI, 1955. (= NRRL. 744, ATCC. 9112, 9824). (U.S.A. Specification MIL-E-5272.A as "P. sp"). Test Strain for mould-proofing.

Penicillium ochrosalmoneum Udagawa

- 78, 258 (T) Milled rice, Burma, 1957. S. Udagawa (Herb.NHL.6048).

Penicillium olivinoviride Biourge

- 40, 223 (A) Biourge—CBS—NRRL(2028)—G. Smith, 1949.

Penicillium oxalicum Currie & Thom

- 39, 750 S. A. Hall—NRRL(790), 1934—G. Smith.
68, 215 ?Soil, Japan. S. Abe(FAT.1180)—CMI, 1957.

Penicillium palitans Westl.

- 40, 215 (?T) Westling—CBS—NRRL(2033), 1946—G. Smith.

****Penicillium palitans* Westl. var. *echinoconidium* Abe**

68, 236 (A) ?Soil, Japan. S. Abe(FAT.1019)—CMI, 1957.

***Penicillium pallidum* G. Smith**

40, 214 (T) Yarn, England. G. Smith(76)—NCTC—NRRL(2037)—G. Smith, 1949.
(= ATCC.10478).

51, 240(b) (A) *Persea gratissima*, associated with Scolytid beetles, Seychelles, 1952. G. S. Brown.

54, 224 Soil, Ibadan, Nigeria, 1954. R. M. Jackson.

****Penicillium paraherquei* Abe**

68, 220 (A) ?Soil, Japan. S. Abe(FAT.964)—CMI, 1957.

***Penicillium parvum* Raper & Fenn.**

40, 587 (T) Soil, Nicaragua. NRRL(2095), 1945—G. Smith.

***Penicillium patulum* Bain.**

(Syn. *P. urticae* Bain.)

28, 808 Bainier Coll'n—Thom(4640.454)—NCTC(1722), 1932. (= NRRL.994, ATCC.9260).

34, 908 G. Smith(P.189)—CMI, 1949. Patulin production.

34, 909 Raistrick(Ad.77)—G. Smith—CMI, 1949. Patulin production.

39, 809 Bainier—Thom(4640.455)—NRRL(989), as *P. urticae* Bain. (A)—G. Smith, 1949.

59, 511 Christine J. Bessell(C613), 1955.

***Penicillium paxilli* Bain.**

40, 226 Optical instrument, Barro, Colorado I., Panama. W. G. Hutchinson—W. H. Weston—NRRL(2008)—G. Smith, 1949.

***Penicillium phialosporum* Udagawa**

78, 256 (T) Milled rice, Cal., U. S. A., 1955. S. Udagawa(Herb.NHL.6044).

***Penicillium phoeniceum* van Beyma**

40, 585 (T) Van Beyma—CBS—NRRL(2070), 1946—G. Smith.

***Penicillium piceum* Raper & Fenn.**

40, 038 (T) K. B. Raper(NRRL.1051)—G. Smith, 1949.

56, 963 Prepuce of bull, Newcastle, 1952. P. K. C. Austwick(V.12).

67, 999 Milk sample from mastitis, Weybridge, 1955. P. K. C. Austwick(9646).

***Penicillium piscarium* Westl.**

40, 032 (T) Cod liver oil. Westling—Thom(2549), 1911—NRRL(1075)—G. Smith.

57, 248 Soil, Northern Ireland. Q. A. Ahmed—CMI, 1954.

****Penicillium pseudocasei* Abe**

68, 235 (T) ?Soil, Japan. S. Abe(FAT.317)—CMI, 1957.

***Penicillium puberulum* Bain.**

34, 913 Raistrick (Ad.113)—G. Smith—CMI, 1949. (= NRRL.1889, ATCC.8732).

40, 222 *Zea mays*, U. S. A. Thom—CBS—NRRL(2040), 1946—G. Smith.

***Penicillium pulvillorum* Turf.**

29, 215(2) Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B.42)—P. W. Brian(BRL.504A).

40, 595 U. S. A. J. W. Foster—NRRL(2082), 1944—G. Smith.

***Penicillium purpurogenum* Stoll**

40, 037 Darien, Manchuria. K. Saito—Thom(4279C), 1918—NRRL(1061)—G. Smith.

54, 215 Soil, Ibadan, Nigeria, 1953. R. M. Jackson.

- Penicillium purpurogenum* var. *rubrisclerotium* Thom
40, 035 Harvard, U.S.A. R. M. Wheldon—NRRL(1066), 1941—G. Smith.
68, 219 ?Soil, Japan. S. Abe(FAT. 562)—CMI, 1957.
- Penicillium purpurrescens* (Sopp) Biourge
39, 745 Soil, Canada. G. R. Bisby—NRRL(720), 1932—G. Smith.
52, 735 Soil, Northern Ireland, 1952. Q. A. Ahmed.
- Penicillium putterillii* Thom
40, 212 (A) Timber, New Zealand. J. C. Neill—CBS—NRRL(2150), 1946—G. Smith.
- Penicillium raciborskii* Zal.
40, 568 (? T) Soil, Poland. Zaleski—CBS—NRRL(2150), 1946—G. Smith.
- Penicillium radulatum* G. Smith
71, 624 (T) Calluna heathland soil, soil, G. B., 1954.
G. W. F. Sewell(E. 62)—G. Smith(BB. 333).
- Penicillium raistrickii* G. Smith
40, 221 (T) Cotton yarn, England, ca 1927-29. G. Smith(100)—NRRL(2039)—G. Smith.
- Penicillium ramusculum* Batista & Maia
63, 546 (T) Culture contaminant, Brazil, 1955. Jorge Bitancourt(478).
- Penicillium raperi* G. Smith
71, 625 (T) Soil, Bedford, 1952. G. Smith(BB. 338).
- Penicillium resedanum* McLenn. & Duck.
62, 877 (T) Soil, Frankston, Australia. E. I. McLennan(A221)—CMI, 1956.
- Penicillium resticulosum* Birk., Raist. & G. Smith
40, 227 (T) Contaminant of culture, London. G. Smith(P. 47)—CMI, 1955.
(= NRRL. 2021).
- Penicillium restrictum* Gilm. & Abbott
40, 228 Soil, Honduras, 1937. E. M. Gilbert—E. McCoy—NRRL(1748)—G. Smith.
57, 245 Soil, Northern Ireland, 1954. Q. A. Ahmed(A. 43).
- Penicillium rolfsii* Thom
40, 029 (T) Pineapple, Miami, Fla., U.S.A. P. H. Rolfs—Thom(32)—NRRL
(1078)—G. Smith, 1949.
- Penicillium roquefortii* Thom
24, 313 (T) Roquefort cheese, 1904. Thom(18)—NRRL(849)—G. Smith, 1949.
(= ATCC. 10110).
57, 201 Wood pulp, Gravesend, Kent, 1954. P. Russell(B.S. 393).
- **Penicillium roquefortii* Thom var. *punctatum* Abe
68, 234 (T) ?Soil, Japan. S. Abe(FAT. 314)—CMI, 1957.
- Penicillium roseopurpureum* Dierckx
40, 573 (? T) Biourge—CBS—NRRL(2064), 1946—G. Smith.
- Penicillium rotundum* Raper & Fenn.
40, 589 (T) Wood, Chiriqui Prov., Panama. G. W. Martin—NRRL(2107), 1946—G. Smith.
- Penicillium rubrum* Stoll
40, 036 Paper, Washington, D.C., U.S.A. NRRL(1062), 1930—G. Smith.

Penicillium rugulosum Thom

- 28, 259 K. B. Raper(NRRL, 1054)—NCTC(6610), 1943.
 40, 041 (T) Storrs, Conn., U.S.A. C. Thom(46)—NRRL(1045)—
 G. Smith, 1949.
 56, 971 Lung of mole, Exeter, 1954. P. K. C. Austwick(V. 711a/2).

Penicillium sacculum Dale

- 51, 498 Soil, New S. Wales, 1952. S. Marcus—G. Smith.
 68, 319 Soil, Woburn Exp. Sta. E. A. Peterson(Rothamsted 11)—CMI, 1956.

Penicillium sclerotigenum Yamamoto

- 68, 616 (A) H. Yamamoto—Inst. Ferment. Osaka(6167)—CMI, 1957.

Penicillium sclerotiorum van Beyma

- 40, 569 (T) ?Air, Buitenzorg, Java. Boedijn—van Beyma—CBS—NRRL(2074),
 1945—G. Smith.

Penicillium simplicissimum (Oud.) Thom

- 39, 816 Flannel bag, S. Africa. E. M. Laughton—NRRL(902)—G. Smith, 1949.
 61, 388 Paper pulp, Slough, Bucks., 1955. P. W. Heron(9c).

Penicillium solitum Westl.

- 39, 810 (?T) Westling—Thom(2546)—NRRL(937)—G. Smith, 1949.

Penicillium soppii Zal.

- 40, 217 (T) Soil, Poland. Zaleski—CBS—NRRL(2023)—G. Smith, 1949.

Penicillium spiculisporum Lehm.

- 40, 043 U.S.A. C. W. Emmons—NRRL(1028), 1937—G. Smith.
 44, 279 Soil, Kettering, Northants., 1950. J. H. Warcup(E. 116).
 63, 917 Vegetable tanned hide, England, 1948—G. Smith(BB. 222).
 76, 551 Grassland soil, Banaras, India, 1958. R. Y. Roy.

Penicillium spinuloramigenum Sasaki

- 68, 617 (A) Y. Sasaki(B. 55)—Inst. Ferment. Osaka(5359)—CMI, 1957.

Penicillium spinulosum Thom

- 24, 316(1) (T) Contaminant of culture, Hanover, Germany. Thom(45)—NCTC(591),
 1920. (= Raistrick Ad. 29).
 24, 316(2) As above, via H. C. Greene—NRRL(1750)—G. Smith, 1949.
 29, 467(a) In a solution of p-diguanidino-benzoyl-L-glutamic acid hydrochloride,
 Oxford. P. M. Cowan—CMI, 1948.
 42, 237 In N/10 sulphuric acid, Guildford, Surrey, 1950. N. Carter.
 74, 803 Culture contaminant, Manchester, England. T. K. Walker—CMI, 1958.
 Gives high yield of fat.

Penicillium steckii Zal.

- 40, 583 Textiles, Barro, Colorado I., Panama. W. H. Weston—NRRL(2140)—
 G. Smith.
 55, 453(b) Heavy water, Harwell, Berks., 1954. C. E. Ford.
 61, 387 Paper pulp, Slough, Bucks., 1955. P. W. Heron(9b).
 61, 422 Soil, Pakistan, 1955. Q. A. Ahmed(F. 4).
 72, 029 Ghana. L. Piening(11)—CMI, 1958.

Penicillium stipitatum Thom ex Emmons

- 39, 805 (T) Rotting wood, Louisiana, U.S.A., 1931. T. C. Sheffer—Thom
 (NRRL. 1006)—G. Smith.
 69, 250 Soil, Iraq. M. K. Tolba(6)—CMI, 1957.

Penicillium stoloniferum Thom

- 31, 200 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 9).

- 39, 824 (T) Rotting mushrooms, Storrs, Conn., U.S.A., 1904. Thom(27);
NRRL(859)—G. Smith.
68, 216 ?Soil, Japan. S. Abe(FAT. 815)—CMI, 1957.

Penicillium striatum Raper & Fenn.

- 39, 741 (T) Canned blueberries, U.S.A., 1938. C. C. Williams et al. —NRRL
(717)—G. Smith, 1949.

Penicillium sublateralium Biourge

- 40, 594 (T) Biourge—CBS, 1929—NRRL(2071)—G. Smith.

Penicillium tardum Thom

- 28, 333 (A) Bainier Coll'n—Da Fonseca—Thom—NCTC(1719), 1923.
40, 034 (T) Dead twigs, France. Bainier—Thom(4640.444)—NRRL(1073)—
G. Smith, 1949.

Penicillium terlikowskii Zal.

- 29, 099 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 41).
40, 572 P. W. Brian—NRRL(2067), 1945—G. Smith.
61, 879 Stomach of aborted calf, Cirencester, Glos., 1955. P. K. C. Austwick
(A. 39).

Penicillium terrestre Jens.

- 28, 040 Cake, NCTC, 1920. NCTC(763). (= Raistrick Ad. 4).
39, 808 Utah, U.S.A., 1929. Logan—Thom(5042.135)—NRRL(934)—G. Smith.

Penicillium thomii Maire

- 31, 397 Decayed apples, Southern Rhodesia. G. R. Bates(7644.G)—CMI, 1948.
40, 027 Air, Natick, Mass., U.S.A. D. H. Lindner—NRRL(1640)—G. Smith,
1949.
59, 866 Scandinavian wood pulp, Gravesend, Kent, 1955. P. Russell(CRL831).
60, 049 Chalk soil, England, 1955. V. Sankey(V. Bd).
63, 762 Rotten wood, Flatford Mill, Suffolk, 1956. A. H. S. Brown.
68, 175 Surface of polypore, Glenmore Forest, Invernesshire, 1953. P. K. C.
Austwick(L. 3).
68, 615 Y. Sasaki(B. 68)—Inst. Ferment., Osaka(5362)—CMI, 1957, as
Penicillium yezoensum Hanzawa(T).

**Penicillium thomii* Maire var. *flavescens* Abe

- 68, 221 (T) ?Soil, Japan. S. Abe(FAT. 340)—CMI, 1957.

Penicillium trzebinskii Zal.

- 39, 749 (T) Forest soil, Poland. Zaleski—CBS—C. Thom(5010.27), 1928—
NRRL(731)—G. Smith.

**Penicillium trzebinskii* Zaleski var. *magnum* Sakaguchi & Abe

- 68, 222 (T) ?Soil, Japan. S. Abe(FAT. 24)—CMI, 1957.

Penicillium turbatum Westl.

- 39, 738 (T) Westling—Thom(2545), 1911—NRRL(757)—G. Smith.

Penicillium urticae Bain.

- see *P. patulum*

Penicillium variabile Sopp

- 40, 040 Coconut matting, Johannesburg, S. Africa. J. H. Bowen—NRRL(1048),
1938—G. Smith.
61, 384 Paper pulp, Slough, Bucks., 1955. P. W. Heron(6c).

Penicillium varians G. Smith

- 40, 586 (T) Cotton yarn, England. G. Smith(91)—NRRL(2096)—G. Smith.

Penicillium velutinum van Beyma

40, 571 (T) Sputum, Holland. van Beyma—CBS—NRRL(2069), 1946—G. Smith.

Penicillium vermiculatum Danegard

39, 043 Soil, Nigeria, 1949. A. M. Reid.

40, 046 Tucson, Ariz., U.S.A. K. D. Butler—NRRL(1019)—G. Smith, 1949.

40, 581 Soil, Sao Paulo, Brazil, 1945. NRRL(2100)—G. Smith.

49, 125 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton (M. 4666).

60, 866 *Carex riparia*, Long Eaton, Nottingham, 1955. J. Webster.

61, 050 Rice, Malaya, 1955. A. Johnston.

61, 270 USDA(1336.1)—QM(464)—CMI, 1955. (= NRRL. 2315, ATCC. 9776). (U.S.A. Specification MIL-E. 5272A as *P. luteum*.) Test strain for mould-proofing.

63, 916 G. Smith(S. 88)—CMI, 1956.

79, 783 Rhizosphere of *Phaseolus vulgaris*, England, 1959. R. Pearson.

Penicillium verruculosum Peyronel

40, 039 Soil, Texas, U.S.A. M. B. Morrow—NRRL(1050), 1930—G. Smith.

54, 221 Soil, Ibadan, Nigeria, 1953. R. M. Jackson.

57, 202 Lignin, Gravesend, Kent, 1954. P. Russell(BS. 404.H).

79, 196 Textile, Florida, U.S.A. W. H. Weston—NRRL(2135)—CMI, 1960.

Penicillium vinaceum Gilman & Abbott

29, 189 (T) Soil, Utah, U.S.A. Gilman & Abbott—Thom(4894.15), 1927—NRRL(739)—G. Smith, 1949. (= Raistrick. 101514).

Penicillium viniferum Sakaguchi

— see *Paecilomyces varioti*

Penicillium viridicatum Westl.

39, 758 Air, Washington, D. C., U.S.A., 1940. NRRL(963)—G. Smith.

49, 096 G. G. Freeman(F. 22)—CMI, 1952.

49, 162 G. Smith(Ad. 15)—CMI, 1952.

53, 263 Broad bean cotyledon, Cyprus. R. A. Altson(8/23/7)—CMI, 1956.

**Penicillium viridicyclopium* Abe

68, 218 (T) ? Soil, Japan. S. Abe(FAT. 843)—CMI, 1957.

Penicillium waksmanii Zal.

39, 746 (T) Zaleski—CBS—Thom(5010.36), 1928; NRRL(777)—G. Smith.

Penicillium wortmannii Klöck.

31, 389 Sunn hemp seeds, Southern Rhodesia. G. R. Bates(7549a)—CMI, 1948.

40, 047 (T) Soil, Denmark. A. Klöcker—Biourge(401)—Thom(4733.126.1), 1924—NRRL(1077)—G. Smith.

44, 277 Soil, Kettering, Northants., 1950. J. H. Warcup(E. 97).

60, 036 Culture contaminant, Ceylon, 1955. J. W. L. Pieris.

Periconia circinata (Mang.) Sacc.

7, 301 Wheat roots, Harpenden, Herts., 1937. M. D. Glynn.

Periconia igniaria Mason & M. B. Ellis

58, 371 (A) Soil, Reynold's River, N. T., Australia, 1954. J. H. Warcup. (11196).

60, 906 (A) *Ammophila arenaria* roots, England, 1955. J. C. Brown(S. 50).

Periconia macrospinosa Lefebvre & Johnson

24, 411 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup(B. 145).

45, 923 Wheat rhizosphere, France. C. & H. Moreau(Mycothèque, Paris. 231)—CMI, 1951.

- 68, 327 *Trifolium pratense*, Rothamsted Exp. Sta. E. A. Peterson(19)—CMI, 1956.
- Periconiella echinoclaoe* Batista
67, 731 Soil, Sahara Desert. J. Nicot(FOOM/1)—CMI, 1956.
- Pericystis apis* Maasen ex Claussen
— see *Ascosphaera apis*
- Pestalotiopsis disseminata* (Thüm) Steyaert
53, 204(e) *Elaeis guineensis*, Calabar, Nigeria, 1952. R. A. Bull(WAIFOR 87a).
- Pestalotiopsis gracilis* (Kleb.) Steyaert
69, 749 Betel vine, Fatulla, Dacca, Pakistan, 1956. S. Hasan(Pest.1).
- Pestalotiopsis guepini* (Desm.) Steyaert
53, 050 *Cinchona*, nr. Lushoto, Tanganyika, 1953. G. B. Wallace(125/53).
- Pestalotiopsis papposa* Steyaert
61, 852 Yam, assoc. with collar rot, Nigeria, 1955. S. R. Chant(FRO. 31).
- Pestalotiopsis stictica* (Berk. & Curt.) Steyaert
63, 328 *Pinus radiata* seedling, Mombasa, Kenya. I. A. S. Gibson(382)—CMI, 1956.
- Pestalotiopsis versicolor* (Speg.) Steyaert
76, 409 Leaves of *Anogeissus latifolia*, Jabalpur, India, 1958. G. P. Argwal.
76, 411 Leaves of *Carissa carandas*, Jabalpur, India, 1958. G. P. Argwal.
- Petriella asymmetrica* Curzi
38, 601 (T) *Pyrus communis*, dry branches, Italy. Curzi—CBS—CMI, 1949.
49, 875 Rose stem, Jersey, 1952. D. H. Phillips(J. 11).
62, 753 *Corylus avellana*, Sheffield, 1956. J. Webster(1754).
68, 971 Cotton, Aden. G. M. Wicken(ARR/4/2)—CMI, 1957.
- Petriella asymmetrica* var. *cypria* Nattrass
62, 756 (T) CBS—J. Webster—CMI, 1956.
- Peyronellaea glomerata* (Corda) Goldanich
17, 361 Tomato, England, 1915. F. T. Brooks—NCTC(1135), (as *Phoma alternariaceum* Brooks & Searle (T)).
46, 259 *Eucalyptus saligna* yard pole, S. Africa. T. R. L. (24)—FPRL(S. 601)—CMI, 1951.
74, 752 Wool, Christchurch, N. Zealand, 1958. A. P. Mulcock.
- Pezicula corticola* (Jørg.) Nannf.
62, 470 Pear, East Malling, Kent, 1954. P. W. Talboys(EMRS. A. 8). Trunk canker.
- Pezicula livida* (Berk. & Br.) Rehm
58, 046 *Pseudotsuga douglasii*, Penshurst Estate, Kent, 1954. S. Batko.
68, 739 *Pinus contorta*, Kirkhill Forest, Scotland. S. Batko—CMI, 1957.
- Phaeoscopulariopsis paisii* (Pollacci) Ota
(Syn. *Torula paisii* Pollacci)
36, 480 Pollacci—CBS—CMI, 1949. (As *Torula paisii* (T)).
- Phaeotrichoconis crotalariae* (Salam & Rao) Subram.
52, 821 *Crotalaria verrucosa*, Hyderabad, 1952. M. A. Salam & P. N. Rao(No. 11).
(As *Trichoconis crotalariae* Salam & Rao (T)).
69, 755 Rice seeds, Dacca, Pakistan, 1957. M. A. Matin(Helm. 8).

- Phialophora melinii* (Nannf.) Conant
59,445 CBS-CMI, 1955.
- Phialophora richardsiae* (Nannf.) Conant
76,548 Grassland soil, Banaras, India, 1958. R.Y. Roy.
- Phialophora verrucosa* Medlar
21,191 Man, Texas, U.S.A. F.D. Weidman(2261)—NCTC(3531), 1932.
(= ATCC.4806).
- Philocopra*
— see *Podospora*.
- Phoma aculeorum* Sacc.
62,715(a) Rose, Lusaka, N. Rhodesia, 1956. A. Angus(959a).
- Phoma alternariaceum* Brooks & Searle
— see *Peyronellaea glomerata*
- Phoma eupyrena* Sacc.
44,772 Soil, Amphill Forest Nursery, Beds., 1950. J.H. Warcup(104.a.10/3).
45,944 Soil, Amphill Forest Nursery, Beds., 1951. J.E. Brind(8.S.II.1).
- Phoma glomerata* (Corda) Wollenw. & Hoch
— see *Peyronellaea glomerata*
- Phoma pigmentivora* Massee
49,948 White lead paint, England. R.K.S. Wood—CMI, 1952.
- Phomopsis oncostoma* (Thüm.) v. Höhnelt
68,344 Robinia pseudacacia, Petersham, Surrey, 1956. E.W. Mason.
- Phomopsis tuberivora* Güssow & Foster
38,386 Potato tubers, Hertfordshire, 1949. J.V. Ives.
79,161 Potato tuber, Cambridge, 1960. M. Kostrowicka.
79,162 Potato tuber, Cambridge, 1959. M. Kostrowicka.
- Phycomyces blakesleeianus* Burgeff
21,156 CBS(B.1)—NCTC(5853), 1939. (+) m. 22191.
21,998 W.H. Wilkins, Oxford—NCTC(2894), 1929.
22,191 CBS—NCTC(4941), 1936. (-) m. 21156.
31,598 Decaying wasp nest, Rademon Estate, Co. Down, Northern Ireland,
1948. G.M. Waterhouse.
44,142 Linneman, Göttingen—J. Webster, 1950. (-) m. 21156.
63,218 H. Borris, Univ. Greifswald—CMI, 1956. (+) m. 63,219.
63,219 H. Borris, Univ. Greifswald—CMI, 1956. (-) m. 63,218.
63,923 Beans lying on sawdust, England, 1956. M. Bound.
- Phycomyces nitens* (Agardh) Kunze ex Fr.
51,077 Coconut meal, Bristol, 1952. D.J. Parry.
78,267 Rat bait in sewer, Greenwich, 1959. J.J. Elphick.
- Phymatotrichum fimicola* V. Dring
73,530 (T) Mouse dung, Aburi, Ghana, 1957. V. Dring(AD2).
- Physalospora obtusa* (Schw.) Cooke
38,560 Cupressus, Kenya, 1949. R.M. Nattrass(1207).
62,468 Apple, Kent, 1950. P.W. Talboys.
- Phytophthora arecae* (Colem.) Pethyb.
62,655 Areca catechu fruit, S. Kanara, India. K.M. Thomas (Allahabad Univ.)
—TCCF(445)—CMI, 1956 (+).

- 62, 656 Areca catechu fruit, S. Kanara, India. K. M. Thomas (Allahabad Univ.)
—TCCF(446)—CMI, 1956 (-).

Phytophthora boehmeriae Sawada

- 32, 199 Citrus fruit, Bella Vista, Argentina, 1939. M. J. Frezzi—J. T. Middleton
(2056).

Phytophthora cactorum (Leb. & Cohn) Schroet.

- 21, 168 R. T. Tabor, 1921—E. M. Blackwell—NCTC(2082).
50, 470 Root of apple tree, S. Rhodesia, 1952. A. Rothwell(MR. 10538).
62, 471 Apple, Bromsgrove, Worcs. P. W. Talboys(P. 1)—CMI, 1956. Trunk
canker.
77, 376 Juglans nigra, Gannat, Allier, France. J. Grente(688)—CMI, 1959.
77, 970 Leonian—CBS (as *Phytophthora pini*)—CMI, 1959.
78, 653 Apple branch, Argentina, 1959. R. E. Pontis.

- *Phytophthora cactorum* (Leb. & Cohn) Schroet. var. *applanata* Chester
— see *Phytophthora citricola*

Phytophthora cambivora (Petri) Buism.

- (Syn. *Blepharospora cambivora* Petri)
40, 505 Castanea sativa, Portugal. A. A. L. Pimentel—CMI, 1950.
77, 374 Castanea sativa, Lalevade, Ardeche, France. J. Grente(870)—CMI,
1959.

Phytophthora capsici Leonian

- 40, 502 CBS—CMI, 1950.

Phytophthora cinnamomi Rands

- 20, 561 Conifer, Argentina, 1946. M. J. Frezzi(691).
22, 938 (T) Cinnamon, Sumatra, 1922. R. D. Rands—ATCC(1407)—L. H.
Leonian—CMI—NCTC(2804).
40, 506 Castanea sativa, Spain. P. Urquijo Landaluze (U).
70, 473 Erica stems and roots, England, 1957. M. Jones.
77, 375 Castanea sativa, Lalevade, Ardeche, France. J. Grente(871)—CMI,
1959.
77, 377 Juglans regia, Terrasson, Dordogne, France. J. Grente(903)—CMI,
1959.

Phytophthora citricola Sawada

- (Syn. *P. cactorum* var. *applanata* Chester)
21, 173 (T) Orange, Formosa, ca 1926. Sawada—S. F. Ashby—NCTC(3057),
45, 571 Hops, Kent. W. G. Keyworth(148)—CMI, 1951.

Phytophthora citrophthora (Smith & Smith) Leonian

- 32, 034 New Zealand. Brien(N. Z. 13)—S. F. Ashby—E. M. Blackwell—NCTC
(6103), 1941—C. E. Foister.

Phytophthora cryptogea Pethyb. & Laff.

- 21, 278 China aster, California. C. M. Tompkins(214)—J. T. Middleton(2015/214)
—CMI, 1948. Forms oospores with IMI. 22938 *P. cinnamomi*.
45, 168 Tomato, New Zealand, 1951. A. C. Smith(F1).

Phytophthora drechsleri Tucker

- 40, 499 Chrysanthemum cinerariifolium, root rot. M. J. Frezzi(619). (+).
40, 500 Solanum lycopersicum, fruit rot. M. J. Frezzi(830). (-).
40, 532 Citrus, California. J. T. Middleton(2117). (-).
77, 969 (A) C. M. Tucker(113)—CBS—CMI, 1959.

Phytophthora erythroseptica Pethyb.

- 21, 277 Potato, Belfast, N. Ireland. A. E. Muskett—CBS—CMI, 1948.
34, 684 (T) Potato, Ireland. Pethybridge(23)—CBS—CMI, 1949.

Phytophthora heveae Thompson

36, 528 Hevea rubber, Kuala Lumpur, Malaya. A. Johnston(C.424)—CMI, 1949.

Phytophthora hibernalis Carne

36, 906 CBS—C. J. Hickman—CMI, 1949.

Phytophthora himalayensis Dastur

17, 028 (T) Potato, Kufri, India, 1945. J. F. Dastur.

Phytophthora lateralis Tucker & Milbrath

40, 503 (T) Chamaecyparis lawsoniana, Oregon, U.S.A. C. M. Tucker—C. B. S.

Phytophthora megasperma Drechsle

48, 127 Peach trees, Bologna, 1951. G. Goidanich.

Phytophthora mexicana Hotson & Hartge

77, 971 (? T) Hotson—CBS—CMI, 1959.

Phytophthora palmivora (Butl.) Butl.

63, 552 Cacao, Tafo, Ghana, 1956. A. L. Wharton(WACRI. A. 333).

63, 553 Ditto (WACRI. A. 334).

63, 554 Ditto (WACRI. A. 335).

63, 555 Ditto (WACRI. A. 336).

63, 556 Soil in cacao plantation, Tafo, Ghana. A. L. Wharton(WACRI. A. 353).

63, 604 Cacao, Ibadan, Nigeria, 1956. S. R. Chant.

74, 798 Cacao pod, Trinidad, 1958. M. B. Morris.

74, 805 Cacao pod, Ivory Coast, 1958. P. D. Turner(WACRI. S. 2).

79, 226 Cacao pod, District d'Oyem, Gabon, 1959. G. Rambeaud—P. D. Turner(WACRI. S. 64).

79, 227 Cacao pod, Oboisso, Ivory Coast, 1959. M. Goujon—P. D. Turner (WACRI. S. 74).

79, 228 Cacao leaf, Umuahia, Nigeria, 1959. P. D. Turner(WACRI. S. 80).

79, 229 Cacao pod, Oyo, Nigeria, 1959. P. D. Turner(WACRI. S. 92).

79, 230 Cacao (chupon), Isobi, Southern Cameroon, 1959. P. D. Turner (WACRI. S. 114).

79, 232 Cacao pod, District d'Obala, French Cameroon, 1959. P. D. Turner (WACRI. S. 139).

79, 233 Cacao pod, Musola, Fernando Po, 1959. P. D. Turner(WACRI. S. 172).

79, 234 Cacao pod, Pinogana, Panama, 1959. G. Ocana—P. D. Turner(WACRI. S. 186).

79, 235 Cacao pod, Nafanua, Western Samoa, 1959. B. Parham—P. D. Turner (WACRI. S. 188).

79, 236 Cacao pod, Belgian Congo, 1959. T. Tinsley—P. D. Turner(WACRI. S. 193).

79, 570 Cacao pod, Park Estate, St. Lucia, W. I., 1959. P. D. Turner(WACRI. S. 207).

79, 571 Cacao pod, Atkinson, Dominica, W. I., 1959. J. B. Yankey—P. D. Turner(WACRI. S. 215).

79, 572 Cacao pod, Hanover, Jamaica, B. W. I., 1959. A. G. Naylor—P. D. Turner(WACRI. S. 218).

79, 573 Cacao pod, Angola, S. W. Africa, 1959. P. D. Turner(WACRI. S. 225).

80, 027 Leaf stalk lesion, Ceylon. E. D. C. Baptiste(RRIC. 22)—CMI, 1960.

80, 028 Leaf stalk lesion, Ceylon. E. D. C. Baptiste(RRIC. 27)—CMI, 1960.

80, 029 Green shoot lesion, Ceylon. E. D. C. Baptiste(RRIC. 38)—CMI, 1960.

80, 030 Leaf stalk lesion, Ceylon. E. D. C. Baptiste(RRIC. 39)—CMI, 1960.

80, 031 Leaf petiole lesion, Ceylon. E. D. C. Baptiste(RRIC. 40)—CMI, 1960.

80, 032 Leaf stalk lesion, Ceylon. E. D. C. Baptiste(RRIC. 41)—CMI, 1960.

80, 033 Pod of clone, Ceylon. E. D. C. Baptiste(RRIC. 42)—CMI, 1960.

80, 034 Green shoot lesion, Ceylon. E. D. C. Baptiste(RRIC. 43)—CMI, 1960.

80, 298 Cacao pod, Old Giehun, Lower Bambara, Sierra Leone, 1959.

C. T. Pyne(M. 6577).

- 80, 299 Cacao pod, Kpai, Small Bo, Sierra Leone, 1959. C. T. Pyne(M. 6578).
 80, 300 Cacao pod, Taninahan, Tunkia, Sierra Leone, 1959. C. T. Pyne
 (M. 6579).
 80, 301 Cacao pods, Neikabo, Nongowa, Sierra Leone, 1959. C. T. Pyne
 (M. 6580).
- Phytophthora parasitica* Dastur emend. Ashby
 21, 279 J. T. Middleton(2010)—CMI, 1948. (-).
 22, 176 *Nigella damascena*, Mauritius. G. Orian—CMI, 1948. (-) m. 35087.
 35, 087 Tomato seedling, High Wycombe, Bucks., 1945. N. Montgomery(14).
 (+) m. 22176.
 77, 972 Sawada—CBS (as *Phytophthora tabaci*)—CMI, 1959.
- Phytophthora porri* Foister
 32, 269 Leeks, Evesham, Worcs. J. A. Tomlinson—CMI, 1948.
- Phytophthora syringae* (Kleb.) Kleb.
 40, 529 ?Valencia orange fruit, California, 1933. Fawcett—J. T. Middleton
 (1891-C).
 62, 472 Pear, Holland. P. W. Talboys(EMRS. P. 8)—CMI, 1956.
- Pilaira anomala* (Cés.) Schrbet.
 37, 159(a) Rabbit dung, Richmond Park, Surrey, 1949. H. A. Dade.
 43, 023 Rabbit dung, Quantock Hills, Somerset, 1950. H. A. Dade.
- Pilobolus kleinii* van Tiegh.
 70, 913 Sheep dung, Richmond Park, Surrey, 1957. J. Hawkins.
 73, 958 Rabbit dung, Bunso, Ghana, 1958. V. Dring(AP. 2a).
 73, 959 Horse dung, Accra, Ghana, 1958. V. Dring(AP. 2b).
 74, 217 Rabbit dung, Burwash, Sussex, 1958. R. Gooden.
- Pilobolus umbonatus* Buller
 73, 961 Horse dung, Accra beach, Ghana, 1958. V. Dring(AP. 18).
- Piptocephalis arrhiza* van Tiegh. & Le Monn.
 77, 592 Mouse dung, Cobel Canyon, San Gabriel Mts., Cal., U.S.A., 1957. R. K.
 Benjamin(RSA 629). (Now on *Cokeromyces recurvatus*).
- Piptocephalis cylindrospora* Bain.
 17, 745(a) *Circinella mucoroides*, England. E. Yuill—G. R. Bisby—CMI, 1947.
 (On *Circinella mucoroides*).
 77, 593 Horse dung, La Verne, Cal., U.S.A., 1954. D. H. Ford—R. K. Benjamin
 (RSA 209). (Now on *Cokeromyces recurvatus*).
- Piptocephalis freseniana* de Bary
 63, 943 On *Pilaira anomala* from rabbit dung, Ruislip Woods, Middlesex, 1956.
 A. H. S. Brown.
- Piptocephalis fusispora* van Tiegh.
 — see *P. lepidula*.
- Piptocephalis lepidula* (Marchal) Benjamin
 63, 944 On *Mucor hiemalis* from rabbit dung, Derbyshire, 1956. A. H. S. Brown.
 77, 595 Rotting agaric, Evey Canyon, San Gabriel Mts., Cal., U.S.A., 1954.
 D. H. Ford—R. K. Benjamin(RSA 292). (Now on *Cokeromyces recurvatus*).
 77, 596 Rat dung, Mt. San Antonio, San Gabriel Mts., Cal., U.S.A., 1953.
 D. H. Ford—R. K. Benjamin(RSA 275). (Now on *Cokeromyces recurvatus*).
 77, 674 Mouse dung, Slate Creek Valley, Sierra Nevada, Cal., U.S.A., 1957.
 E. Sprague—R. K. Benjamin(RSA 591). (Ex neotype). (Now on *Cokeromyces*
recurvatus).

- 77, 597 Mouse dung, Belden, Cal., U.S.A., 1958. R.K. Benjamin(RSA 691).
(Now on *Cokeromyces recurvatus*).
77, 598 Dung, Fall River Mills, Cal., U.S.A., 1958. R.K. Benjamin(RSA 695).
(Now on *Cokeromyces recurvatus*).

Piptocephalis microcephala van Tiegh.

- 77, 594 Mouse dung, Evey Canyon, San Gabriel Mts., Cal., U.S.A., 1957.
R.K. Benjamin(RSA 628). (Now on *Cokeromyces recurvatus*).

Piptocephalis virginiana Mercer & Leadbeater

- 70, 910 (T) *Mucor hiemalis*, in a cave near Morgantown, West Virginia. (Now on *Circinella tenella*). G. Leadbeater—CMI, 1957.

Piptocephalis xenophila Dobbs & English

- 56, 692(i) (T) On *Penicillium waksmanii* from soil nr. Bristol, 1941.
C.G. Dobbs. (On *Penicillium waksmanii*).
56, 693(i) (A) On *Penicillium frequentans* from soil, Ottawa, 1951. D. Wells—
C.G. Dobbs. (On *Penicillium frequentans*).
56, 693(ii) As above. (Now on *Mucor ramannianus*).
77, 599 Mouse dung, Belden, Cal., U.S.A., 1958. R.K. Benjamin(RSA 694).

Pithomyces chartarum (Berk. & Curt.) M.B. Ellis

(Syn. *Sporidesmium bakeri* Syd.)

- 74, 473 Field grass, Hamilton, N. Zealand, 1958. R.H. Thornton. Associated
with facial excema in sheep.
76, 994 Litter, Southern Victoria, Australia, 1959. B.S. James.
77, 683 Fodder grass, Gippsland, Vic., Australia, 1959. S. Fish(FE. 9).
77, 684 Ditto(FE. 13).
77, 863 Ditto(FE. 4).

Pithomyces maydicus (Sacc.) M.B. Ellis

(Syn. *Clasterosporium maydicum* Sacc., *Sporidesmium bakeri* var. *maydicum*
(Sacc.) Hughes)

- 46, 232 *Andropogon gabonensis*, Njala, Sierra Leone, 1951. F.C. Deighton
(M. 3852).

Pithomyces sacchari (Speg.) M.B. Ellis

- 56, 086(b) Pineapple leaf, Sierra Leone, 1953. F.C. Deighton(M. 5507/B).

Pleospora androsaces Fuckel

- 70, 946 *Silene acaulis*, Cwym Idwal, N. Wales, 1957. J. Webster.

Pleospora æeumannii Müller

- 56, 826 Dead grass, (? *Cynodon transvaalensis*), S. Africa, 1954. H.J. Swart
(250).

Pleospora herbarum (Pers. ex Fr.) Rabenh.

- 70, 828 *Symphytum peregrinum*, Nairobi, Kenya, 1957 R.M. Nattrass(2126).
77, 679 Pasture, Gippsland, Vic., Australia, 1959. S. Fish(FE. 2).

Pleospora papaveracea (De Not.) Sacc.

- 46, 380 *Meconopsis primulina*, Auchincruive, Ayrshire, Scotland, 1951. H. F.
Dovaston.

Pleospora straminis Sacc. & Speg.

- 62, 754 *Lolium perenne*, England, 1956. J. Webster(1791).

Plicaria fulva Schneider

- 59, 206 (T) Greenhouse soil, Berlin-Dahlem, 1953. R. Schneider.

- 60,977 Seed bed, Holland. CBS—I. Isacc—CMI, 1955.
- 61,802 Seed of slash pine, U.S.A. F.A. Wolf (as *Mycotypha dichotoma* Wolf (T))—CMI, 1955.
- 68,968 Casing soil, mushroom bed, Worthing, Sussex, 1957. F.C. Wood—D.A. Reid.
- 69,004 Steamed soil, Guernsey, C.I. D.J. Harrison—CMI, 1957.
- Plicaria trachycarpa* (Curr.) Boud.
59,800 Soil, Evesham, Worcs., 1955. R.E. Taylor.
- Podospora curvicolla* (Wint.) Niessl
61,330 Rabbit dung, Tadworth, Surrey, 1955. W.M. Page.
68,393 Rabbit dung, Richmond Park, Surrey, 1956. J. Hawkins.
- Podospora decipiens* (Winter) Winter
72,632 Cow dung, nr. Rye Harbour, Sussex, 1958. J. Hawkins.
- Podospora setosa* (Wint.) Niessl
34,172 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup(B.161).
40,423 W.M. Page—CMI, 1950.
- Polystictus sanguineus* (L. ex Fr.) Fr.
75,002 Decaying wood, Banaras, India, 1958. A. Lal(S.4).
- Polystictus versicolor* (L. ex Fr.) Fr.
79,126 FPRL(28A)—CMI, 1959. For study of clamp connections.
- Poria metamorphosa* (Fuckel) Sacc.
77,997 Wood, Sapley, Huntingdonshire, 1959. R.W.G. Dennis.
- Pseudarachniotus citrinus* (Massee & Salmon) Kuehn
76,604 Soil, Tennessee, U.S.A. B. West & L. Ajello—H.H. Kuehn—CMI, 1959.
- Pseudarachniotus roseus* Kuehn
76,605 (T) Ulcerated gizzard of chicken, Tucson, Arizona, U.S.A., 1932.
C. Thom(5439)—NRRL(1677)—H.H. Kuehn.
- Pseudeurotium multisporum* (Saito & Minoura) Stolk
62,762 Soil, Dacca, Pakistan, 1956. Q.A. Ahmed(NB.15).
- Pseudoplea trifolii* (Rostr.) Petr.
75,684 Sunflower, Mt. Makulu Res. Sta., N'n Rhodesia, 1958. A. Angus(M.417, PPNR.2316).
77,934(a) *Arachis hypogea*, Vacoas, Mauritius, 1959. Orioux—S. Felix(D430).
77,945 Potato, Rio des Auguilles, Mauritius, 1959. Orioux—S. Felix(D441).
78,285(a) *Allium cepa*, Dharwar, India, 1959. K.M. Ponappa(3).
- Pullularia fermentans* Wynne & Gott var. *fermentans* Wynne & Gott
62,456 (T) Lymph node of man, U.S.A. E.S. Wynne & C.L. Gott—CMI, 1956.
- Pullularia fermentans* var. *benedekii* Wynne & Gott
62,462 (T) Benedek—CBS—E.S. Wynne & C.L. Gott—CMI, 1956.
- Pullularia fermentans* var. *castellani* Wynne & Gott
62,459 (T) Castellani—CBS—E.S. Wynne & C.L. Gott—CMI, 1956.
- Pullularia fermentans* var. *fusca* (Brown) Wynne & Gott
62,460 (T) CBS—E.S. Wynne & C.L. Gott—CMI, 1956.

- Pullularia fermentans* var. *leaoi* Wynne & Gott
62, 461 (T) Leao—CBS—E. S. Wynne & C. L. Gott—CMI, 1956.
- Pullularia fermentans* var. *melinii* Wynne & Gott
62, 458 (T) Melin—CBS—E. S. Wynne & C. L. Gott—CMI, 1956.
- Pullularia fermentans* var. *schoenii* Wynne & Gott
62, 457 (T) Schoen—CBS—E. S. Wynne & C. L. Gott—CMI, 1956.
- Pullularia nigrans* Berkh.
— see *Dematium nigrum*.
- Pullularia pullulans* (de Bary) Berkh.
17, 468 Bainier Coll'n—M. B. Church, Washington(1719.4)—NCTC(1744), 1924.
25, 323 Rennerfelt, Sweden—FPRL(S.9A)—CMI, 1948.
43, 918 Submerged hawthorn twigs, Gerrards Cross, Bucks., 1950. J. J. Cavett.
45, 533 Painted wood, Costa Rica. M. H. Downing(QM. 279.c)—CMI, 1951.
Paint mould.
58, 404 Coffee stem, Tanganyika, 1954. G. B. Wallace(367/54).
60, 590 Woollen cloth, Lancashire, 1955. A. Shaw.
68, 034 Surface of deteriorated paint, Kenya. R. M. Nattrass(2052).
70, 103 Defence Standards Lab., Australia. (DSL:224)—CMI, 1957. Strain used for tropic testing.
- Pycnostysanus azaleae* (Peck) Mason
62, 162 *Rhododendron ponticum*, Sunninghill, Berks., 1955. P. J. Howell.
- Pyronema confluens* Tul.
— see *P. omphalodes*.
- Pyronema domesticum* (Sow. ex Fr.) Sacc.
57, 472 Contaminant of culture, CMI, 1954. H. A. Dade.
74, 867 Vegetable ashes, Leamington, Warwickshire, 1958. V. Massey.
- Pyronema omphalodes* (Bull. ex Fr.) Fuckel
(Syn. *P. confluens* Tul.)
43, 914 M. P. Topping—CMI, 1950.
- Pythium acanthicum* Drechs.
32, 041 (A) ?*Citrullus vulgaris*, U.S.A. C. Drechsler—S. F. Ashby, 1932—NCTC(3548)—C. E. Foister.
- Pythium anandrum* Drechs.
48, 561 Lupin roots, Hamilton, N. Zealand. H. C. Smith(Y. 17)—CMI, 1952.
- Pythium aphanidermatum* (Edson) Fitzp.
58, 847 Tobacco, black stem rot, Mt. Makulu Research Sta., Lusaka, Northern Rhodesia, 1954. E. A. Riley(530).
- Pythium butleri* Subram.
63, 578 Cucumber, Bangkok, Thailand, 1956. E. F. Vestal.
69, 000 Pawpaw, Dungun Tringanu, Malaya, 1957. A. Johnston(C. 185).
- Pythium debaryanum* Hesse
48, 558 Strawberry roots, Auckland, New Zealand. H. C. Smith(Y. 18)—CMI, 1952.
50, 465 Tobacco, S'n Rhodesia. A. Rothwell(MR. 10281)—CMI, 1952.
- Pythium graminicola* Subram.
34, 768 J. T. Middleton(898)—C. E. Foister, 1947.

- Pythium helicoides* Drechsler
61, 433 Lucerne, Australia. J. H. Simmonds(11695-G)—CMI, 1955.
- Pythium intermedium* de Bary
22, 931 *Kentia forsteriana*, Gembloux, Belgium, 1931. E. Marchal—CMI—NCTC(3549), 1932.
39, 858 Hops, E. Malling, Kent, 1943. W. G. Keyworth—E. M. Blackwell.
- Pythium mammilatum* Meurs
45, 622 C. J. Hickman—CMI, 1951.
- Pythium myriotylum* Drechsler.
61, 432 Pineapple, Brisbane, Australia. J. H. Simmonds(11673-C)—CMI, 1955.
- Pythium oligandrum* Drechsler.
78, 731 Cellophane film buried in soil, Cambridge, 1960. J. Daniels.
- Pythium polymorphon* Sideris
48, 559 Cress seedlings, Cambridge. H. C. Smith(Y. 9)—CMI, 1952.
- Pythium proliferum* de Bary
42, 098 Plant debris, R. Dart, Totnes, Devon, 1950. G. M. Waterhouse.
- Pythium rostratum* Butler
42, 564 Soil, Amptill Forest Nursery, Beds. J. H. Warcup—H. C. Smith(Y. 35)—CMI, 1952.
- Pythium splendens* Braun
61, 523 Oil Palm, WAIFOR, Benin, Nigeria. J. S. Robertson(WAIFOR.B.7/55)—CMI, 1955.
- Pythium ultimum* Trow
33, 291 Lettuce roots, Slough, Middx., 1948. H. Jacks.
- Pythium undulatum* Petersen
35, 558 Plant debris in water, Roughton, Lincs., 1949. G. M. Waterhouse.
- Pythium vexans* de Bary
34, 882 *Piper nigrum* seedlings, Saigon, Indo-China. H. Barat—A. Johnston (C. 258), 1949.
- Ramularia bellunensis* Speg.
54, 046 *Chrysanthemum cinerariifolium*, Kenya, 1953. R. M. Nattrass.
- Ramulispora sorghi* (Ell. & Everh.) Olive & Lefeb.
63, 346 *Sorghum vulgare*, Samaru, Zaria, N'n Nigeria, 1956. E. Harrison(128).
- Retinocylus abietis* (Crouan) Groves & Wells
— see *Biatorrella difformis*
- Rhacodium cellare* Pers. ex Wallr.
44, 943 Wine cellar. CBS—L. D. Galloway—CMI, 1951.
- Rhinocladiella atrovirens* Nannf.
58, 774 *Pinus radiata*, Brunswick, Australia, 1954. N. E. Walters(DFP. 4620).
- Rhinocladiella elatior* Mangelot
69, 919 *Pseudotsuga taxifolia*, Lytton, British Columbia, 1957. S. J. Hughes (DAOM. 55423).
- Rhinotrichum lanosum* (Cooke) Cooke
— see *Clinotrichum lanosum*

Rhizoctonia lamellifera Small

- 42, 242 Jacaranda roots, Kenya, 1950. R. M. Nattrass(1361).
 56, 701 Roots of *Elaeis guineensis*, assoc. with "blast" disease, Yaliqimba, Belgian Congo, 1954. W. G. Kovachich.
 60, 059 *Elaeis guineensis* seedling, Nigeria, 1955. R. A. Bull.

Rhizoctonia solani Kühn, "A" strain of Park & Bertus

- 20, 697 Rice, Kuala Lumpur, Malaya. A. Johnston(9)—CMI, 1948.

Rhizopus arrhizus Fischer

- 16, 641 Cotton lint, India. M. K. Patel—CMI, 1947.
 34, 169(b) Groundnut hypocotyl, Tanganyika, 1949. I. A. S. Gibson.
 53, 173 *Vicia faba* seedlings, Cyprus, 1953. R. A. Altson.
 57, 412 Mouldy bran, Auchincruive, Ayrshire, 1952. P. K. C. Austwick(V. 149/2).
 71, 487 Cotton root, Aden, 1957. C. Logan(ARR. 10B).

Rhizopus artocarpus Racib.

- 51, 921 *Artocarpus heterophyllus*, Njala, Sierra Leone, 1953. F. C. Deighton (M. 5138).
 62, 010 *Artocarpus integer*, Sungei Trap, Mudo, Malaya, 1955. A. Johnston (C(NS)5).

Rhizopus cohnii Berl. & de Toni

- (Syn. *R. suinus* Nielsen)
 39, 698 Pig, Germany. Nielsen—CBS (as *R. suinus* Niels. (A))—CMI, 1950.
 62, 483 Rice, Malaya, 1956. A. Johnston[C(NS)116].

Rhizopus delemar (Boid.) Wehm. & Hanz.

- 44, 245 NRRL(1472)—ATCC(9374), 1947. Amylo process.

Rhizopus japonicus Vuill.

- 21, 600 Central Lab., Manchurian Railway—NCTC(1905), 1924.

Rhizopus microsporus van Tiegh.

- 57, 413 Lung of pullet, Bangor, 1952. P. K. C. Austwick(V. 252).
 77, 425 Man, assoc. with mucormycosis, Durban, S. Africa, 1959. K. C. Watson(B)—J. Walker.

Rhizopus nigricans Ehrenb.

- see *R. stolonifer*.

Rhizopus oryzae Went. & Geerl.

- 21, 602 Central Lab., S. Manchurian Railway—NCTC(1907), 1924.
 40, 564 NRRL(395)—ATCC(9363)—CMI, 1950. Production of lactic acid.
 44, 534(b) Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson(73).
 50, 109(b) Cacao husks, Asuansi, Ghana, 1952. J. J. Obeng.

Rhizopus sexualis (Smith) Callen

- 36, 280 (T) Rotting strawberry, England, 1922. M. N. Kidd—G. Smith—CBS.

Rhizopus stolonifer (Ehrenb. ex Fr.) Lind

- (Syn. *R. nigricans* Ehrenb.)
 17, 134 Narcissus, Plymouth. N. H. Alcock—NCTC(1087), 1921.
 35, 571 Canvas cotton, India, 1948. P. Datton.
 42, 844 Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson(40).
 57, 761 A. F. Blakeslee (CIW. strain C-25A)—ATCC(6227a. +), 1937.
 57, 762 A. F. Blakeslee (CIW. strain C-25B)—ATCC(6227b. -), 1937.
 61, 269 Wireless set, New Guinea, 1944. AWA Lab.—QM(387). (= SN. 32, Aust. 32, ATCC. 10404). (U. S. A. Specification MIL-E-5272 A as *R. nigricans*).
 Test strain for mould-proofing.
 67, 964 Fig, New Zealand, 1956. E. E. Walker.

- 77,426 Man, assoc. with mucormycosis, Durban, S. Africa, 1959. K. C. Watson(C)—J. Walker.

Rhizopus suinus Nielsen
— see *R. cohnii*.

Rhizopus tonkinensis Vuill.
21,601 Central Lab., S. Manchurian Railway—NCTC(1906), 1924.

Rhizopus tritici Saito
39,701 (A) Saito—CBS—CMI, 1950.

Rhodotorula rubra (Demme) Lodder
38,784 NCTC(4585)—J. A. Burns—CMI, 1949.

Ryparobius crustaceus (Fuckel) Rehm
68,073 Birkbeck College, 1956.
79,977 Hutch rabbit dung, Richmond, Surrey, 1959. S. Scott.

Ryparobius polysporus (Karst.) Sacc.
67,944 Rabbit dung, Richmond Park, Surrey, 1956. J. Hawkins.
75,299 Hare dung, Royal Lytham & St. Anne's Golf Course, Lancs., 1958.
V. Massey.

Saccharomyces carlsbergensis Hansen
80,178 NRRL(Y-379)—W. J. Wickerham, 1942—G. C. Ainsworth.

Saccharomyces cerevisiae Meyen ex Hansen
19,391 Strain Fleischmann(139). K. Dittmar—ATCC(9896)—NCTC(7044), 1945.
39,916 H. J. Bunker—CMI, 1950. Baking strain.
61,263 B. M. Brown (Whitbread's ZSC. 148)—NCYC(234), 1951.
61,302 NCYC(429)—CMI, 1955.

Saccharomyces ellipsoideus Hansen
38,758 Strain Michigan 48. NCTC(7040)—H. J. Bunker—CMI, 1949.
61,303 NCYC(93)—CMI, 1955.

Saccharomyces intermedius Hansen
46,336 "Tibi" (ginger beer plant), Holland. H. D. Mayer—CBS—CMI, 1951.

Saccharomyces macedoniensis Diddens & Lodder
— see *S. marxianus*.

Saccharomyces marxianus Hansen
(Syn. *S. macedoniensis* Diddens & Lodder)
38,918 NCTC—G. E. Shaw—CMI, 1949. (= NCYC 243). Assay of aneurin.

Saccharomyces oviformis Osterw.
61,682 NCYC(374)—CMI, 1955.

Saccharomyces pyriformis Marshall Ward
45,290 Holland. B. Kirsop—CMI, 1951.

Schizophyllum commune Fr.
61,312 Mahogany. FPRL(9)—CMI, 1955.
67,963 J. R. Raper—ATCC(12671)—CMI, 1956. Mutant "Blue 130", producing the pigment indigo.

Schizosaccharomyces octosporus Beijer.
23,657 B. J. Glover—CMI, 1949.

Schizosaccharomyces pombe Lindner

39, 917 H. J. Bunker—CMI, 1950.

Schizothyrium ptarmicae Desm.50, 218 *Achillea ptarmica*, Wombourn, Staffs., 1952. C. P. Quarrel—N. C. Preston.*Sclerophoma pithyophila* (Corda) Höhn.61, 395 *Pinus sylvestris*, Thetford Chase, 1955. S. Batko.61, 806 *Pinus sylvestris* needles, Munford, Thetford Chase, England, 1955. S. Batko.*Sclerotinia fructigena* Aderh. & Ruhl.

61, 849 Apple, Liverpool, 1955. N. A. Burges(4/11)—W. R. N. Williamson.

78, 441 Soil, Egypt, 1959. H. M. Yusef(B. 245).

Sclerotinia miyabeana Hanzawa69, 310 *Arachis hypogea*, Mt. Makulu, Northern Rhodesia, 1957. M. Lister (1411).*Sclerotinia narcissicola* Gregory76, 833 *Narcissus* bulbs, Guernsey, Channel Is., 1959. D. J. Harrison(z51).*Sclerotinia spermophila* Noble63, 227, (A) *Trifolium repens*, N. Zealand. M. Noble—CMI, 1956.*Sclerotium cepivorum* Berk.79, 155 *Allium cepa*, Egypt, 1959. A. Kilani.*Sclerotium coffeicola* Stahel37, 953 *Aristolochia gibbosa* (leaf spot), Sierra Leone, 1949. F. C. Deighton (M. 2944).*Sclerotium delphinii* Welch49, 110 *Pyrus malus* root, Kenya. N. E. Ryan—R. M. Nattrass(1656).71, 730 *Crotalaria usarumensis*, Malaya, 1957. A. Thompson.74, 212 Soil, assoc. with diseased *Ranunculus*, Holland, 1946. Jaarsveld—CBS.74, 213 *Delphinium*, assoc. with root rot, Williamsville, Ill., U. S. A., 1929. F. L. Stevens(Str. I)—CBS.74, 214 *Delphinium*, assoc. with root rot. Univ. of Wisconsin—F. L. Stevens (Str. III)—CBS, 1932.74, 215 *Iris germanica*, New Brunswick. White—CBS, 1930.74, 216 *Ajuga repens*. Mix—CBS, 1935.*Sclerotium oryzae-sativae* Sawada

31, 287 Rice, Formosa, 1929. W. Yamamoto(327)—NCTC(3417).

62, 599 Rice, Malaya, 1956. A. Johnston[C(NS)102].

Sclerotium rolfsii Sacc.

33, 912 Groundnut, Tafo, Ghana, 1947. H. Owen.

37, 955 *Tagetes erecta* flowers, Sierra Leone, 1949. F. C. Deighton(M. 3048).45, 090 Leaf bases of *Neomarica* (?) *gracilis*, Njala, Sierra Leone, 1950. F. C. Deighton(M. 3726).46, 239 *Zephyranthes tubispatha* leaves, Njala, Sierra Leone, 1951. F. C. Deighton(M. 4062).46, 240 *Gerbera jamesonii* leaf stalk, Njala, Sierra Leone, 1951. F. C. Deighton(M. 4063).

59, 151(a) Moss, Njala, Sierra Leone, 1954. F. C. Deighton(M. 6327A).

59, 849 Groundnut, Northern Rhodesia, 1955. E. A. Riley(650).

70, 829 *Dianthus* root, Kitale, Kenya, 1957. R. M. Nattrass(2133).

74, 209 Rome. Baldacci(IPV. 216)—CBS, 1951.

- 74, 210 Potato stem, assoc. with foot rot, Rome. Curzi—CBS, 1931.
 74, 211 Rice seedlings. Tisdale—CBS, 1922.
 77, 445(a) Rhubarb, Chisamba, N'n Rhodesia, 1958. A. Angus.
 78, 359(b) Groundnut, Bomo, Zaria, Nigeria, 1959. E. Harris(517).
- Scopulariopsis brevicaulis* (Sacc.) Bain.
 17, 297 Cheese, U. S. A. M. B. Church, Washington(2)—NCTC(580), 1920.
 (= Raistrick Ad. 40).
 40, 026 NRRL(1096)—G. Smith, 1949.
 57, 424 Hen's egg, Devon, 1953. P. K. C. Austwick(V. 359/3).
 61, 011(b) Lepidopterous larva, Tanganyika, 1955. G. W. Valentine.
 61, 424 British Cotton Industries Research Association, 1930—G. Smith(BB. 121).
 61, 534 K. B. Raper—CBS—CMI, 1955.
- Scopulariopsis melanospora* Udagawa
 78, 257 (T) Milled rice, U. S. A., 1955. S. Udagawa (Herb. NHL. 6045).
- Scytalidium lignicola* Pesante
 62, 532 (T) Platanus wood, Italy. A. Pesante—B. Peyronel—CMI, 1956.
- Selinia pulchra* (Wint.) Karst.
 67, 947 Deer dung, Richmond Park, Surrey, 1956. J. Hawkins.
 70, 914 Sheep dung, Richmond Park, Surrey, 1957. J. Hawkins.
- Sepedonium albogriseum* Balfour-Browne
 — see *Botryotrichum piluliferum*.
- Septonema chaetospora* Grove
 60, 911 Roots of *Ammophila arenaria*, England, 1955. J. C. Brown(S. 1144).
- Septoria pisi* Westend.
 73, 294 Pea, Kinangop, Kenya. R. M. Nattrass(No. 2188)—CMI, 1958.
- Sordaria destruens* (Shear) Hawker
 (Syn. *Melanospora destruens* Shear)
 44, 227 ? Apple, G. B. L. Hawker(A. 50), 1950—N. Montgomery.
 49, 111 *Chrysanthemum cinerariifolium*, Kenya. N. E. Ryan—R. M. Nattrass
 (1707)—CMI, 1952.
 53, 641 Cabbage seedlings, Kanpur, India, 1953. H. C. Srivastava(2).
 69, 748(a) Betel vine, Fatulla, Dacca, Pakistan, 1956. S. Hasan(Ceratos. 1).
- Sordaria fimicola* (Rob.) Cés. & de Not.
 35, 086(d) Horse dung, Kirkby-on-Bain, Lincolnshire, 1949. G. M. Waterhouse.
 37, 159(b) Rabbit dung, Richmond Park, Surrey, 1949. H. A. Dade.
 57, 414 Faeces of pig, Devon, 1952. P. K. C. Austwick(V. 150/1).
 74, 999 Sugarcane leaf, Banaras University, India, 1958. A. Lal(CB. 1).
 78, 642 Rhizosphere of tea plant, India, 1959. C. S. Venkataram.
- Sordaria fimiseda* Cés. & de Not.
 67, 948 Cow dung, Petersham Meadows, Richmond, Surrey, 1956. H. A. Dade.
- Sordaria glutinans* Cain
 68, 751 Rabbit dung, Blakeney Point, Norfolk, 1956. W. M. Page.
- Sordaria humana* (Fuckel) Wint.
 52, 645 Soil, Chobham, Surrey, 1953. P. Bull—M. P. Topping(265. Sord.).
 54, 768 Soil, England, 1953. G. W. F. Sewell—A. H. S. Brown.
- Sordaria hypocoproides* Speg.
 80, 254 Jute bag, Indian Jute Mills Ass. Res. Inst. India, 1960. W. G. Macmillan
 (IJMARI 173).

Sordaria macrospora Auersw.

39, 721 Rabbit dung, England. W. M. Page—CMI, 1950.

Sordaria minuta Fuckel

67, 941 Rabbit dung, Clumber Park, Derbyshire, 1956. A. H. S. Brown.

Sordaria perplexans Cain

61, 518 Rabbit dung, Dipton Wood, Newcastle. W. M. Page—CMI, 1955.

Sordaria taenioides (Griff) Sacc. & D. Sacc.

80, 526 Giraffe dung, San Francisco Zoo, Cal., U. S. A., 1958. S. Stribling.

Sordaria tetraspora Wint.

73, 778 Rabbit dung, Burwash, Sussex, 1958. R. Gooden.

75, 298 Hare dung, Royal Lytham & St. Anne's Golf Course, Lancs., 1958.
V. Massey.

Sordaria verruculosa (Jensen) Sacc.

51, 496 Soil, New South Wales, 1952. S. Marcus—G. Smith.

34, 483 Soil, Lakenheath Warren, Suffolk, 1949. J. H. Warcup(B. 84. b).

Spegazzinia tessarthra (Berk. & Curt.) Sacc.

51, 265 Soil, Tanganyika, 1952. A. R. Cottrell(C. 62).

Sphaerobolus stellatus Tode

54, 098 CBS—CMI, 1953.

67, 858 Rotten wood, Clumber Park, Derbyshire, 1956. A. H. S. Brown.

67, 859 As above.

67, 860 Rotten wood, Chatsworth, Derbyshire, 1956. A. H. S. Brown.

Sphaeronaemella fimicola Marchal

63, 872 Deer dung, Richmond Park, Surrey, 1956. J. Hawkins.

Sphaeropsis subglobosa Cooke

57, 769(c) Bambusa arundinaria culm, Njala, Sierra Leone, 1954. F. C. Deighton(M. 6166. c).

Sphaeropsis tumefaciens Hedges

76, 762 Knot on lemon, Unity, St. Mary, Jamaica, 1959. Dept. Agric. Jamaica.

76, 763(a) Knot on lime, nr. Dracabessa, St. Mary, Jamaica, 1959. Dept. Agric., Jamaica.

Sphaerostilbe flammea Tul.

76, 416 Scale insect on *Quercus nigra*, U. S. A., 1959. E. S. Luttrell (as *S. aurantiicola* (Berk. & Br.) Petch)—ATCC(13408)—CMI, 1958.

Spicaria aphodii Vuill.

— see *Paecilomyces fumosoroseus*

Spicaria carnea Duché & Heim

— see *Paecilomyces carneus*.

Spicaria decumbens Oud.

— see *Paecilomyces carneus*.

Spicaria elegans Corda

— see *Paecilomyces elegans*.

Spicaria fumosorosea (Wize) Vassilj.

— see *Paecilomyces fumosoroseus*.

Spicaria verticillata (Corda) Lindau
— see *Paecilomyces farinosus*.

Spicaria violacea Abbott
— see *Paecilomyces marquandii*.

Spirodactylon aureum Benjamin
77, 600 (T) Mouse dung, Cajon Pass, Mojave Desert, Cal., U.S.A., 1958.
R. K. Benjamin (RSA 791).

Spirosphaera floriforme van Beverwijk
52, 467 (T) Decaying birch leaves in pond, Eerde, near Ommen, Holland,
1947. A. L. van Beverwijk.

Sporendonema casei Desm. ex Fr.
(Syn. *Oospora crustacea* (Bull.) Sacc.)
37, 084 Cheese, England. L. D. Galloway (185)—CMI, 1949.
68, 748(a) Wooden cheese drum, London, G. B., 1957. H. J. Worthington.

Sporendonema epizoum Corda
— see *Sporendonema sebi*.

Sporendonema purpurascens (Bonord.) Mason & Hughes apud Wood
(Syn. *Coprotichum purpurascens* Bonord.)
45, 638 Mushroom bed, Chesham, Bucks., 1951. F. C. Wood. Cause of
"red Geotrichum" disease.

Sporendonema sebi Fr.
(Syn. *Hemispora stellata* Vuill., *S. epizoum* Corda, *Torula fuliginea* Berk.)
7, 424 Man, Italy. G. Pollacci (as *S. epizoum* Corda)—NCTC(4517), 1934.
7, 425 Man. Sabouraud Coll. — J. T. Duncan—NCTC(3023), 1929.
7, 427 Bainier Coll. (as *Torula fuliginea* Berk.)—M. B. Church(1419.8)—NCTC
(1746), 1924.
13, 876 Man, Brazil. O. Da Fonseca (as *Hemispora stellata* Vuill.)—R. Ciferri
—NCTC(2760), 1928.
37, 338 Jam, Sweden, 1949. J. A. Nannfeldt(10663).
44, 741 Tunisian dates, Nottingham, 1950. B. Webster.
74, 218 Spore print of cultivated mushroom, Worthing, Sussex, 1958. R. Klein.
74, 824 Cake, Chorleywood, Herts., 1958. E. M. Menlove.
76, 802 Salt fish, Canada. Vaisey(887)—N. E. Gibbons—CMI, 1959.
76, 803 Salt fish, Quebec, Canada. H. P. Dussault—N. E. Gibbons—CMI, 1959.
76, 804 Salt fish, Norway. J. Ormerod(A.1)—N. E. Gibbons—CMI, 1959.

Sporidesmium bakeri Sydow
— see *Pithomyces chartarum*

Sporidesmium bakeri Syd. var. *maydicum* (Sacc.) Hughes
— see *Pithomyces maydicius*.

Sporidiobolus johnsonii Nyland
44, 158 (T) Pustule of *Phragmidium rubi-idaei* on *Rubus idaeus*, Puyallup,
Washington, 1946. G. Nyland—C. T. Ingold.

Sporobolomyces holsaticus Windisch
56, 574 CBS—CMI, 1954.

Sporobolomyces odoratus Derx
56, 575 CBS—CMI, 1954.

Sporobolomyces roseus Kluyver & van Niel
29, 384 *Ranunculus*, Norfolk, 1940. G. R. Bisby—NCTC(6435), 1940.

43, 529 Seed oats, Northern Ireland, 1946. J. P. Malone(4H).

Sporocybe cuneifera (Berk. & Br.) Sacc.

— see *Graphium cuneiferum*.

Sporodinia grandis Link

— see *Syzygites megalocarpus*.

Sporophora toruliformis Luteraan

51, 370 (T) Solution of monopotassium phosphate, Paris, 1951. P. J. Luteraan.

Sporormia australis Speg.

77, 856 Cured tobacco, Leatherhead, Surrey, 1959. M. Chalk.

Sporormia minima Auersw.

78, 451 Soil, Egypt, 1959. H. M. Yusef(D. 193).

Sporotrichum carnis Brooks & Hansford

74, 827 (A) Meat, Cambridge, England, 1918. F. T. Brooks—S. D. Garrett—J. Elphick(A1. 29).

Sporotrichum paranense Marchionatto

74, 660 (A) Dead locust, Argentina, 1932. J. B. Marchionatto—Lab. Cent. Fitopat. B. Aires(SAN. 184)—J. Elphick(A1. 44).

Sporotrichum schenckii (Hekt. & Perk.) de Beurm. & Goug.

77, 984 Timber, Venterpost Goldmine, Transvaal, S. Africa, 1942. R. Brown (TRL. 1830)—P. H. Gregory.

Stachybotrys atra Corda

17, 459 G. Smith—CMI, 1947.

42, 310 Dosootie, Peshawar, India, 1946. Tech. Dev. Establ. Lab., Kanpur(D. 303).

42, 311 India. L. D. Galloway—Tech. Dev. Establ. Lab., Kanpur(D. 380)—CMI, 1950.

49, 534 Canvas, New Guinea, ca 1942. L. Fraser.

72, 155 Paper, Washington, D. C., U. S. A., 1941. W. Crozier(QM. 1274).

(= USDA, 1331. 2; NRRL. 1877; ATCC. 9182; Harvard 1063). Strain used for testing mould-proofing in U. S. A.

72, 425(b) *Lolium perenne*, Holland. J. de Tempe(2. 13185)—CMI, 1958.

75, 460 Sugar beet seed balls, Dunholme, Lincs., 1958. C. E. Cornford.

78, 444 Soil, Egypt, 1959. H. M. Yusef(C. 201).

78, 447 Soil, Egypt, 1959. H. M. Yusef(C. 310).

Stachybotrys atra Corda var. *cylindrospora* (Jensen) Rayss & Borut

76, 515 Soil, Beersheba, Israel, 1953. S. Borut.

Stachybotrys dichroa Grove

17, 506 Dead herbaceous stems, Exeter, 1947. M. B. Ellis.

61, 337 Ragwort, Berrow, Worcs., 1955. A. H. S. Brown.

Stachybotrys parvispora Hughes

62, 338 Soil, Belgian Congo, 1955. J. Meyer(25444).

Stachylidium cyclosporum Grove

— see *Verticillium cyclosporum*.

Staphylotrichum coccosporum Nicot & Meyer

57, 898 (A) Soil, Belgian Congo. J. Meyer(S. 270)—CBS—CMI, 1954.

57, 899 (A) Soil, Belgian Congo. J. Meyer(21769)—CBS—CMI, 1954.

Stemphylium ?alternariae (Cooke) Sacc.

31, 640 Jute sand bag, England. S. M. Basu(107)—CMI, 1948.

52, 976 Soil, nr. Goole, Yorks., 1953. A. R. Gottrell(307. 2).

Stemphylium congestum Newton

- 52, 977 Soil, Bellville, nr. Cape Town, South Africa, 1953. A.R. Cottrell (370.1).
 75, 462 Malus leaves, Buenos Aires, Argentina, 1958. J.E. Wright.
 80, 003 Damp plywood, Sittingbourne, Kent, 1959. I.A. Miller.

Stemphylium dendriticum Camara

- 54, 375 Beech stumps, Knole Park, Sevenoaks, Kent, 1953. M. Vincent(580).
 61, 276 Sand dunes, England, 1955. J.C. Brown(S. 25).
 78, 707 Soil, Cuttack, Orissa, India, 1959. G.R. Ghosh.
 79, 906 Wheat, Wakefield, Yorks., 1959. P.D. Hewett(CA. 4352).
 79, 907 Cappelle wheat, Orston, Notts, 1959. P.D. Hewett(CA. 4805).
 79, 908 Cappelle wheat, Dartford, Kent, 1959. P.D. Hewett(CA. 3571).

Stemphylium radicinum (Meier, Drechs. & Eddy) Neerg.

- 63, 223 Carrot seed, Holland. M. Noble—CMI, 1956.

Stemphylium sarcinaeforme (Cav.) Wiltshire

- 49, 672 I.C.I., Hawthorndale Lab. (K. 9).

Stemphylium solani Weber

- 58, 140 (A) Tomato, Manatee, Fla., U.S.A., 1940. G.F. Weber.
 80, 124 Tomato, Arsenal, Mauritius, 1960. S. Felix(F. 64).

Stereum purpureum (Pers. ex Fr.) Fr.

- 62, 469 Plum, East Malling, Kent, 1952. P. W. Talboys(EMRS. H. 10).

Stilbella erythrocephala (Ditm. ex Fr.) Lindau

- 67, 942 Rabbit dung, Ruislip Woods, Middx., 1956. A.H.S. Brown.
 70, 676 Rabbit dung, Sandown, Isle of Wight, 1957. V. Massey.
 70, 915 Sheep dung, Richmond Park, Surrey, 1957. J. Hawkins.
 80, 670 Hutch rabbit dung, Richmond, Surrey, 1960. S. Scott.

Stilbella proliferans F. L. Stevens

(Syn. *Stilbum villosum* Petch)

- 48, 682 Cotton stalks, Arizona, 1952. J.G. Brown(2).
 56, 086(e) Pineapple leaf, Njala, Sierra Leone, 1953. F.C. Deighton(M. 5507(e)).
 62, 240(d) Cacao, Serdang, Malaya, 1955. A. Johnston(1473).
 77, 038(a) Theobroma cacao, Narakapor Plantation, Markham Valley, New Guinea, 1959. D. Shaw(2324).
 80, 162 Theobroma cacao, Bubia, New Guinea, 1959. D. Shaw(2662A).

Stilbum kervillei Quél.

- 56, 174 A dipteran, Frosterly, Durham, 1954. M. Hazelton.

Stilbum villosum Petch

- see *Stilbella proliferans*.

Stilbum zacalloxanthum Moore

- 79, 934 (T) Rotten wood, West Springfield, Mass., U.S.A., 1957. J. Crowell—
 R. T. Moore—CBS.

Streptomyces albus (Doria Rossi emend. Krinsky) Waksman & Henrici

- 52, 766 V. Puntoni—NCTC(3525), 1932—C. E. Coulthard.

Streptomyces arsiensis Ceriotti

- 79, 591 Lab. Ric. Farmitalica, Milan, Italy—CMI, 1959.

Streptomyces fradiae (Waksman & Curtis) Bergey

- 61, 202 Strain 3535X. ATCC(10745)—CMI, 1955. Produces neomycin C14.

- Streptomyces eriseus* (Krinsky) Waksman
39, 048 NCTC(6962)—CMI, 1950.
50, 967 World Health Organization—NCIB—CMI, 1952. Streptomycin production strain.
- Streptomyces krestomyceticus*
79, 589 Lab. Ric. Farmitalia, Milan, Italy—CMI, 1959.
- Streptomyces lavendulae* (Waksman & Curt.) Waksman
39, 045 NCTC(6959)—CMI, 1950.
39, 046 NCTC(6960)—CMI, 1950.
- Strömatinia narcissi* Drayton & Groves
69, 663 Narcissus, Guernsey, C.I., 1957. D. J. Harrison.
- Stysanus microsporus* Sacc.
57, 416 Mouldy hay, Norfolk, 1953. P. K. C. Austwick(V. 424/4).
- Stysanus stemonites* (Pers. ex Fr.) Corda
— see *Echinobotryum atrum*.
- Stysanus ulmariae* McWeeney
— see *Coremiella ulmariae*.
- Stysanus verrucosus* Oud.
68, 394 Deer dung, Richmond Park, Surrey, 1956. J. Hawkins.
76, 251 Asbestos cord, Liverpool, 1959. J. T. Palmer.
80, 524 Hutch rabbit dung, Richmond, Surrey, 1960. S. Scott.
- Sympodiella acicola* Kendrick
69, 967 (T) *Pinus sylvestris* needles, Delamere Forest, Cheshire, 1956.
W. B. Kendrick.
- Syncephalstrum cinereum* Bain.
21, 180 Rice, Burma. D. Rhind—CMI—NCTC(2499), 1928.
- Syncephalastrum racemosum* (Cohn) Schroet.
21, 161 ? Tobacco, Bristol, 1930. F. W. Jollyman—NCTC(3155).
21, 178 G. W. Martin, Iowa, U. S. A. —NCTC(1794), 1924.
57, 418 Intestine of pig, Devon, 1952. P. K. C. Austwick(V. 306/3).
77, 601 Soil, San Dimas, Cal., U. S. A., 1953. D. H. Ford—R. K. Benjamin(RSA 230), (= NRRL A-5990). (+).
77, 602 Coyote dung, San Antonio Canyon, San Gabriel Mts., Cal., U. S. A., 1954. D. H. Ford—R. K. Benjamin(RSA 229). (= NRRL A-5989). (-).
77, 603 Soil, Cucamonga, Cal., U. S. A., 1953. D. H. Ford—R. K. Benjamin(RSA 236). (+).
77, 604 Soil, Blythe, Cal., U. S. A., 1958. G. F. Orr—R. K. Benjamin(RSA 697). (-).
77, 605 Soil, Inyokern, Cal., U. S. A., 1958. G. R. Orr—R. K. Benjamin(RSA 702). (+).
- Syncephalis cornu* van Tiegh. & Le Monn.
77, 606 Rat dung, Hyde Park, New York, U. S. A., 1958. H. E. Ahles—R. K. Benjamin(RSA 756). (Now on *Mucor* sp.)
77, 607 Rat dung, Claremont, Cal., U. S. A., 1958. R. K. Benjamin(RSA 793). (Now on *Mucor* sp.).
- Syncephalis nana* Dade
22, 626 (T) *Absidia glauca*, on cacao beans, Kpeve, Togoland, 1932. H. A. Dade(G. C. 570).

Syncephalis nodosa van Tiegh.

77, 608 Rat dung, Claremont, Cal., U.S.A., 1958. R.K. Benjamin(RSA 794).
(Now on *Mucor* sp.).

Syzygites megalocarpus Ehrenb. ex Fr.

(Syn. *Sporodinia grandis* Link)

53, 602 *Lactarius* sp., Mulgrave Woods, Yorks., 1953. C.J. La Touche.

78, 008 *Melitus scabra*, Westerham, Kent., 1959. S.M. Francis.

Taphrina deformans (Berk.) Tul.

61, 297 CBS, 1955.

Tetracoccusporium paxianum Szabó

51, 264 Black cotton soil, Tanganyika, 1952. A.R. Cottrell(ICI.C.33).

Thamnidium elegans Link ex Fr.

21, 945 Meat, Cambridge, 1919. F.T. Brooks—NCTC(1127); (= ATCC. 11878).

43, 624 Seed oats, Belfast, N.Ireland. J.P. Malone(43.A/47).

68, 748(b) Wooden cheese drum, London, G.B., 1957. H.J. Worthington.

79, 897 Hutch rabbit dung, Richmond, Surrey, 1960. S.Scott.

Thielavia sepedonium Emmons

45, 476 Soil, Amphill Forest Nursery, Beds., 1950. J.H. Warcup(E.98).

80, 253 Jute bag, Indian Jute Mills Ass.Res.Inst., India, 1960. W.G. Macmillan
(IJMARI 170).

Thielavia setosa Dade

21, 599 (T) Fermented cacao, Kpeve, Ghana, 1934. H.A. Dade(M.555).

Thielaviopsis basicola (Berk. & Br.) Ferr.

36, 482 Tiddens (Strain III)—CBS—CMI, 1949.

36, 483 Gilbert—CBS(as *Thielavia basicola* Berk. & Br.)—CMI, 1949.

Thozetellopsis tocklaiensis Agnihothrudu

74, 806 (T) Tea, Tocklai Experimental Sta., Cinnamara, Assam, India.

V.Agnihothrudu—CMI, 1958.

Thyronectria pseudotrichia (Schw.) Seeler

53, 160 *Dysoxylon spectabile*, N. Zealand. J. Dingley(12164)—CMI, 1953.

Tieghemiomyces californicus Benjamin

77, 609 (T) Mouse dung, Evey Canyon, San Gabriel Mts., Cal., U.S.A., 1956.

R.K. Benjamin(RSA 467). (Now on *Cokeromyces recurvatus*).

77, 610 (A) Mouse dung, Jenk's Lake, San Bernardino Mts., Cal., U.S.A.,

1957. R.K. Benjamin(RSA 584). (Now on *Cokeromyces recurvatus*).

77, 611 (A) Mouse dung, Joshua Tree National Monument, Twenty Nine Palms,
Cal., U.S.A., 1958. R.K. Benjamin(RSA 748). (Now on *Cokeromyces*
recurvatus).

Tilachlidiopsis piptadeniae Batista & Maia

63, 749 (T) *Piptadenia columbrina*, Brazil. A.C. Batista(542)—CMI, 1956.

Tilletiopsis minor Nyland

56, 590 CBS—CMI, 1954.

Torula convoluta Harz

— see *Gliomastix convoluta*.

Torula fuliginea Berkh.

— see *Sporendonema sebi*.

Torula graminis Desm. ex Fr.

- 72, 325 *Deschampsia caespitosa*, Barnham Cross Common, Suffolk, 1958.
E. A. Ellis.

Torula herbarum Link ex Fr.

- 1, 332 *Brassica* stems, Haslemere, Surrey, 1945. E. W. Mason ("c" strain).
69, 095 Red cabbage, Wageningen, Holland. CBS-CMI, 1957.
72, 846 *Deschampsia caespitosa*, The Carr, Wheatfen Broad, Norfolk, 1958.
E. A. Ellis.
73, 073 Umbelliferous stem, North Meadows, Sudbury, Suffolk, 1958.
R. Gooden.

Torulopsis utilis (Henneb.) Lodder

- 23, 311 Hayduck & Hacker-CBS-LSH(Y. 5)-CMI, 1948.

Torulopsis utilis var. *major* Thaysen & Morris

- 33, 552 (T) H. J. Bunker-CMI, 1949.

Trachysphaera fructigena Tabor & Bunting

- 33, 913 Cacao pod, Tafo, Ghana, 1948. H. Owen.
67, 669 Banana, Fernando Po, 1956. L. D. Galloway.

Trechispora brinkmanni (Bres.) Rogers

- 80, 439 Rotten roof timbers, London, 1960. R. R. Davies.

Tricellula aquatica Webster

- 75, 598 (T) Decaying leaves of *Castanea sativa*, River Porter, Sheffield,
England, 1958. J. Webster(2311).

Tricellula curvata Haskins

- 73, 023 (T) Air, near Atlanta, Ga., U. S. A., 1953. W. L. Gordon-ATCC(11837)
-R. H. Haskins(PRL. 1561).

Tricellula inaequalis van Beverwijk

- 51, 976 (T) Air, Bergen, Norway. E. Eilertsen-A. L. van Beverwijk-R. H.
Haskins(PRL. 1563)-CMI, 1958.

Trichocladium asperum Harz

- 39, 677 Contaminant of culture, Hallburn, Cumberland, 1950. P. K. C. Austwick.
76, 801 Culture contaminant, London, 1959. C. T. Ingold.

Trichoderma koningii Oudem.

- 54, 690 Soil, Ibadan, Nigeria, 1953. R. M. Jackson(N/25).
54, 693 Soil, Ibadan, Nigeria, 1953. R. M. Jackson(N/26).
57, 420 Mouldy hay, Auchincruive, Ayrshire, 1953. P. K. C. Austwick(V. 418/8).
61, 758 Soil, Kenema, Sierra Leone, 1955. C. T. Pyne.
62, 429 *Michaelmas daisy*, Swansea, Wales, 1956. I. Isaac.
73, 022 Mushroom compost, Worthing, Sussex, 1958. F. C. Wood.

Trichoderma viride Pers. ex Fr.

- 16, 198 Jute fibre, Calcutta, India, 1940. S. W. Basu(24).
24, 039 Soil, Jealott's Hill, Berks., 1944. P. W. Brian(213)-NCTC(7058).
Viridin-producing strain.
45, 548 Tent canvas, Bougainville, Solomon Is. M. H. Downing(QM. 6. A)-
CMI, 1951.
45, 553 M. H. Downing(QM. 365). (= BPI. T-1)-CMI, 1951. Used in U. S. A.
for testing mould-proofing.
49, 268 Ice cream carton, Great Britain, 1952.
53, 608 Coffee, assoc. with "scaly bark", Tanganyika, 1953. G. B. Wallace.
55, 217 Swedish wood pulp, Kemsley, Kent, 1953. P. Russell.
57, 421 Mouldy hay, Auchincruive, Ayrshire, 1952. P. K. C. Austwick(V. 309/5).

59, 151(b) Moss, Njala, Sierra Leone, 1954. F.C. Deighton(M. 6327.B).

61, 381 Paper pulp, Slough, Bucks., 1955. P.W. Heron(2).

— see also IMI.49271 *Hypocrea lenta*.

Trichometasphaeria turcica Luttrell

77, 392 *Sorghum vulgare*, Samaru, Nigeria, 1959. E. Harris.

Trichophyton terrestre Durie & Frey

74, 704 (A) Soil, N.S.W., Australia. E. B. Durie & D. Frey—P. Stockdale, 1958—J. Elphick.

Trichoscyphella calycina (Schum. ex Fr.) Nannf.

68, 127 Pine, Brandon, Suffolk. J. Rishbeth—CMI, 1956.

Trichosporium cerealis (Thüm.) Sacc.

(Syn. *Oidiodendron nigrum* Robak)

38, 105 Air, Amsterdam, Holland. P. D. v. d. Werff—CBS—CMI, 1949.

51, 450 Air, Cardiff, 1952. M. Richards(AARU. 77).

Trichosporon cutaneum (de Beurm., Goug. & Vauch.) Ota

53, 546 Intertidal mud, Sully, South Wales, 1953. R. Harvey.

Trichothecium plasmoparae Viala

75, 331 Vine, assoc. with *Plasmopara viticola*, Verona, Italy. R. Ciferri—CMI, 1958.

Trichothecium roseum (Pers.) Link ex Fr.

32, 236 Contaminant of culture, Kew, Surrey, 1948. S. J. Hughes.

45, 538 Leather, New Guinea. M. H. Downing(QM. 102. e)—CMI, 1951.

Attacks nylon.

50, 660 Apple, England, 1945. G. Smith(BB. 105a)—G. G. Freeman, I. C. I.

Nobel Division(F. 293). Source of trichothecin, etc. (= ATCC. 13354).

50, 661 Tomato, England, 1947. S. Marcus—LSH(95)—G. G. Freeman, I. C. I.

Nobel Division(F. 292). Source of trichothecin, etc. (= ATCC. 13355).

57, 973 K. B. Raper(NRRL. 1665)—ATCC(8685), 1942.

Trichurus terrophilus Swift & Povah

46, 251 *Eucalyptus saligna*, Bekker, S. Africa.

TRL(8)—FPRL(S. 590)

—CMI, 1951.

Tripospermum myrti (Lind) Hughes

62, 080 Stream water, nr. Lullingstone, Kent, 1955. C. T. Ingold.

Tritirachium dependens Limber

45, 558 Leather shoes, Bougainville, Solomon Is. M. H. Downing(QM. 4g-2)—CMI, 1951.

Tritirachium roseum van Beyma

45, 535 Nylon, Ohio, U.S.A. M. H. Downing(QM. 494)—CMI, 1951.

62, 067 Foot of man, England, 1955. C. J. La Touche.

Truncatella hartigii (Tubef) Steyaert

56, 678 Poplar, Lyndhurst, Hants., 1954. S. Batko.

Tubeufia helicomyces Höhn.

47, 036 Hazel. A. L. van Beverwijk—CMI, 1951.

47, 037 Ash. A. L. van Beverwijk—CMI, 1951.

Ustilago scitaminea Syd.

35, 616 Sugarcane, Natal, S. Africa. A. McMartin—G. R. Bates(MR. 8645)—CMI, 1949.

- 36, 859 Sugarcane, Natal, S. Africa. A. McMartin—CMI, 1949.
- Ustilago sphaerogena* Burr.
61, 828 ATCC(12321)—CMI, 1956.
- Valsa ceratophora* Tul.
70, 194 *Sorbus aucuparia*, North Hill, Minehead, Somerset, 1957. E. W. Mason.
- Valsa eugeniae* Nutman & Roberts
44, 946 (A) Clove trees, Zanzibar, 1950. J. Nutman & F. M. Roberts.
56, 910 Clove trees, Malaya, 1954. W. J. Cherewick.
57, 979 Cashew, nr. Lindi, Tanganyika, 1954. M. M. Wallace(279/54).
62, 499 *Eugenia aquea*, Kuala Lumpur, Malaya, 1955. A. Johnston(1509).
- Valsa pini* (Alb. & Schw.) Fr.
80, 102 *Pinus sylvestris*, Nannestad, Akershus, Norway, 1957. F. Roll-Hansen(1632/1).
- Venturia inaequalis* (Cooke) Wint.
61, 538 Apple, East Malling, Kent, 1949. D. S. Kirkham(Clone E. 1).
- Venturia pyrina* Aderh.
28, 958 Pear, East Malling, Kent, 1948. M. H. Moore(462).
61, 539 Pear, East Malling, Kent, 1949. D. S. Kirkham(Clone D. 2).
- Veronea botryosa* Cif. & A. Mont.
70, 233 (T) 'Sansa' (olive slag), Italy, 1954. O. Verona.
- Verticillium alboatrum* Reinke & Berth.
62, 131(i) Tomato, Wye, Kent, 1955. G. F. Pegg.
62, 464 Hops, Penshurst, Kent, 1955. P. W. Talboys(EMRS. 1788).
Fluctuating wilt.
- Verticillium buxi* (Schmidt ex Fr.) Auersw. & Fleisch.
50, 686(c) *Buxus sempervirens*, Silent Pool, nr. Shere, Surrey, 1952. B. A. Stone.
61, 357 *Buxus* leaves, Goblin Coombe, Cleve, Somerset, 1955. A. H. S. Brown.
- Verticillium chlamydosporium* Goddard
76, 105 U.S.A. Struych—CBS—CMI, 1959.
76, 422 Soil, Trinidad, I. D. Firman, 1959.
- Verticillium cinerescens* Wollenw.
62, 680 Carnation, Wales, 1955. I. Isaac.
- Verticillium cyclosporum* (Grove) Mason & Hughes
(Syn. *Stachylidium cyclosporum* Grove)
16, 091 *Rhododendron*, dead wood and bark, Richmond Park, Surrey, 1947.
S. J. Hughes.
63, 832 Rotten wood, Flatford Mill, Suffolk, 1956. A. H. S. Brown.
- Verticillium dahliae* Kleb.
45, 492 Mint, Mazoe Valley, Southern Rhodesia, 1951. J. Broadfoot(9213).
58, 535 Eggplant, Southern Rhodesia, 1954. A. Rothwell.
59, 436 Banana, Tanganyika, 1954. G. B. Wallace(305/54).
61, 286 Tomato, Southern Rhodesia, 1955. A. R. Rothwell(MR. 13426).
62, 465 Quince, Bayfordbury, Kent, 1954. P. W. Talboys(EMRS. 1747).
- Verticillium epiphytum* Hansford
71, 315 *Hemileia vastatrix*, Bangkok, Thailand, 1957. E. F. Vestal(S. 787).

Verticillium intertextum Isaac & Davies

- 61, 295 (T) *Acer palmatum*, Easthampton, Mass., U.S.A., 1950. M.A. McKenzie—I. Isaac & R.R. Davies.

Verticillium marquandii Massee

- see *Paecilomyces marquandii*.

Verticillium nigrescens Pethyb.

- 44, 575 Potato, Offham, Kent, 1944. R.V. Harris(74).
62, 466 Potato, Offham, Kent, 1946. P.W. Talboys(EMRS. 74).

Verticillium nubilum Pethyb.

- 46, 339 Soil, Ampthill Forest Nursery, Beds., 1949. J.E. Brind(4/AV1).
62, 467 Tomato, East Malling, Kent, 1949. P.W. Talboys(EMRS. 162).

Verticillium theobromae (Turconi) Mason & Hughes

(Syn. *Stachylidium theobromae* Turconi)

- 31, 432(a) Banana, Jamaica, 1948. E.B. Martyn.
55, 934 Banana, Northern Rhodesia, 1954. E.A. Riley(254).

Verticillium tricorpus Isaac

- 51, 602 (T) Wilted tomato plant, Fareham, Hants. I. Isaac—CMI, 1953.
71, 799 Tomato, Guernsey, C.I. D.J. Harrison(5)—CMI, 1958.

Verticillium vilmorinii (Guég.) Westerd. & Luijk.

- 62, 679 *Michaelmas daisy*, Wales, 1955. I. Isaac.

Volucrispora aurantiaca Haskins

- 73, 024 (T) Water culture containing soil, Saskatoon, Canada, 1956. R.H. Haskins(PRL. 1554).

Volutella buxi (Corda) Berk.

- 49, 467(b) *Buxus sempervirens*, Box Hill, Surrey, 1952. B.A. Stone.
61, 338 *Buxus* leaves, Goblin Coombe, Cleve, Somerset, 1955. A.H.S. Brown.

Volutella ciliata (Alb. & Schwein.) Fr.

- 38, 780 Tomato root, Cheshunt, England, 1949. M. Ebben—P.H. Williams—E.M. Wakefield.
67, 913 *Pisum sativum*, Sleaford, Lincs., 1954. G.M. Holland(W.H. 38).
74, 420 Soil, Kiel, Germany, 1958. K. Domsch(A. 110).

Volvariella esculenta (Massee) Singer

- 63, 833(i) Thailand. Javavicharana—P.B. Flegg—CMI, 1956.
63, 833(ii) As above.
70, 680 Bagasse, Trinidad. M.B. Morris—CMI, 1957.

Wardomyces anomala Brooks & Hansford

- 32, 064 Eggs, Canada. W.I. Illman—CMI, 1948.

Xeromyces bisporus Fraser

- 63, 718 (T) Stick licorice, N.S. Wales, Australia, 1956. W.J. Scott—C.J. Magee.
76, 589 Table jelly, London, 1959. H.J. Bunker.

Zygorrhynchus exponens Burgeff

- 29, 216 Soil, Wellington, New Zealand, 1946. J.H. Warcup(M. 138).
29, 219 Soil, Buffs wood, Cambs., 1946. J.H. Warcup(BM. 1).
75, 135 Dung, Hyderabad, India, 1958. A. Salam.
75, 136 Dung, Hyderabad, India, 1958. A. Salam.

Zygorrhynchus exponens Burgeff var. *smithii* Hesseltine, C.R. Benjamin & Mehrotra

79, 624 (T) Soil from ploughed field, Monsal Dale, Derbyshire, 1956.
G. Smith(BB. 345).

Zygorrhynchus vuilleminii Namysl.

21, 113 Ling-CBS-Malcolm Wilson-NCTC(5701), 1939.

21, 994 S. Africa. V.A. Wager-NCTC(3231), 1930.

29, 217 Soil, Buffs Wood, Cambs., 1947. J.H. Warcup(B. 21).

47, 187 Contaminant of culture, Newcastle-upon-Tyne, 1949. P.G. Fothergill.

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